19 August 1997

REF: 08587-117

Ms. Erin Allen
ABB Environmental Services Inc.
1536 Kingsley Avenue, Suite #127
Orange Park, Florida 32073

Subject: **Site Activities Report, Potential Source of Contamination 42**
Final Report
Naval Air Station (NAS) Jacksonville, Jacksonville, Florida
Contract No. #N62467-89-D-0317/076

Dear Ms. Allen:

ABB Environmental Services Inc. did not receive any comments regarding the Site Activities Final Draft Report. The document was issued in June 1997 as a Final Draft, but should be considered Final, as no modifications will be made to the final draft report.

Should you have questions pertaining to this document, please contact me at (904) 269-7012, ext. 111.

Respectfully submitted,

ABB ENVIRONMENTAL SERVICES INC.

Phylissa S. Miller
Installation Manager

cc: [illegible] A. Robinson, Code 18511
[illegible] File
[illegible] Code 18511

ABB Environmental Services Inc.

1536 Kingsley Avenue
Suite 127
Orange Park, Florida 32073

Telephone (904) 269-7012
Fax (904) 264-5632

FINAL DRAFT

SITE ACTIVITIES REPORT
POTENTIAL SOURCE OF CONTAMINATION 42

NAVAL AIR STATION JACKSONVILLE
JACKSONVILLE, FLORIDA

Unit Identification Code: N00207

Contract No.: N62467-89-D-0317/076

Prepared by:

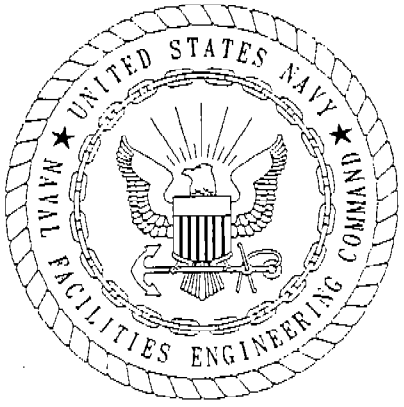
ABB Environmental Services, Inc.
2590 Executive Center Circle, East
Tallahassee, Florida 32301

Prepared for:

Department of the Navy, Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29418

Anthony Robinson, Code 18511, Engineer in Charge

June 1997



CERTIFICATION OF TECHNICAL DATA CONFORMITY (MAY 1987)

The Contractor, ABB Environmental Services, Inc., hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-89-D-0317/076 are complete and accurate and comply with all requirements of this contract.

DATE: June 17, 1997

NAME AND TITLE OF CERTIFYING OFFICIAL: Phylissa S. Miller
Task Order Manager

NAME AND TITLE OF CERTIFYING OFFICIAL: Donald F. Haumann, P.E.
Project Technical Lead

(DFAR 252.227-7036)

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Jacksonville, Florida

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Site Activities Report
Potential Source Contamination 42
Naval Air Station Jacksonville
Jacksonville, Florida

GLOSSARY

ABB-ES	ABB Environmental Services, Inc.
ASTM	American Society for Testing and Materials
FED	Facilities and Environmental Department
FOTW	federally owned treatment works
IRA	interim remedial action
IROD	Interim Record of Decision
mg/ℓ	milligrams per liter
NAS	Naval Air Station
OU	operable unit
PSC	potential source of contamination
psi	pounds per square inch
RAC	remedial action contractor
RCRA	Resource Conservation and Recovery Act
ROICC	resident officer in charge of construction
SOUTHNAV-FACENGCOM	Southern Division, Naval Facilities Engineering Command
TCLP	toxicity characteristic leaching procedure
USEPA	U.S. Environmental Protection Agency
yd^3	cubic yard

SITE ACTIVITIES REPORT
POTENTIAL SOURCE OF CONTAMINATION 42

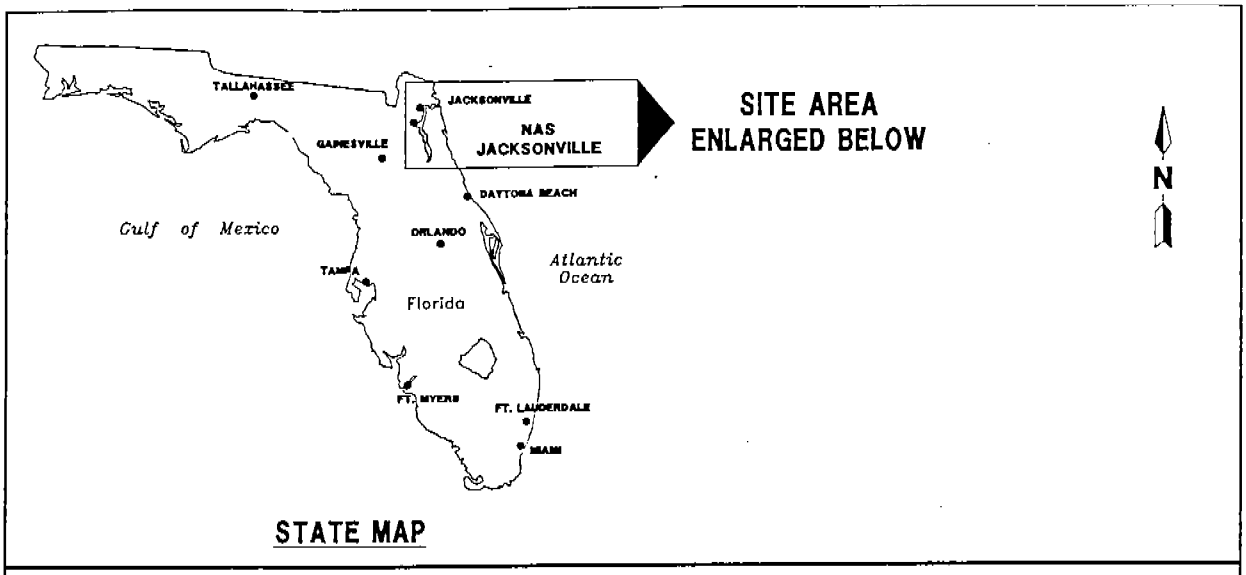
1.0 INTRODUCTION

ABB Environmental Services, Inc. (ABB-ES) has been contracted by the Department of the Navy, Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM) to prepare a Site Activities Report for Potential Source of Contamination (PSC) 42. PSC 42 is located on the Naval Air Station (NAS) Jacksonville in Jacksonville, Florida (Figure 1) within Operable Unit (OU) 2 (Figure 2). The U.S. Environmental Protection Agency (USEPA) classified PSC 42, formerly a polishing pond for wastewater treatment plant effluent, as a surface impoundment to treat Resource Conservation and Recovery Act (RCRA) listed hazardous wastes F006 and F019 (i.e., wastewater treatment sludges from electroplating operations and the chemical conversion coating of aluminum, respectively). An interim remedial action (IRA) was implemented at PSC 42 to solidify and stabilize contaminated sludge in the pond. The purpose of the IRA for PSC 42 was to lower the risk of potential future exposure to humans and the environment by reducing the leachability of contaminated media at PSC 42 to groundwater, and to close the pond in accordance with RCRA closure requirements. The preferred treatment technology for the polishing pond sludge, *in situ* stabilization, is detailed in the Interim Record of Decision (IROD), PSC 42 at Operable Unit 2, Naval Air Station Jacksonville, Jacksonville, Florida (ABB-ES 1995b).

ABB-ES, the Engineer-of-Record for this project, was under contract by SOUTHNAVFACENGCOM to provide engineering oversight and technical support during implementation of the IRA. Responsibilities included daily site visits followed by daily reports submitted to the NAS Jacksonville Resident Officer in Charge of Construction (ROICC) (Appendix A). In addition to field oversight and technical support, ABB-ES attended weekly Quality Control meetings with representatives from the remedial action contractor (RAC) - Bechtel Environmental, Inc., the ROICC, and the NAS Jacksonville Facilities and Environmental Department (FED) to discuss progress of the IRA and assist in resolution of outstanding issues.

Remedial construction activities at PSC 42 began in March 1996. Stabilization began May 10, 1996, and was substantially complete on February 27, 1997. Remedial work at PSC 42 was delayed from approximately June 13 to August 12 because the RAC was assigned to perform a time-critical response action elsewhere on NAS Jacksonville. During the implementation phase, additional contaminated soils from the Building 101 foundation excavation and PSCs 3 and 4 were added to the stabilized mix. Previously stabilized materials from PSC 41 were deposited on top of stabilized cells at PSC 42. Contaminant sources and types for these materials were the same as those identified above (F006 and F019). A total of 3,837 cubic yards (yd^3) of additional soils (817 cubic yards from Building 101; 20 yd^3 from PSCs 3 and 4; and 3,000 yd^3 from PSC 41) were brought to PSC 42 and added to the stabilized area. An additional 728 yd^3 of concrete, excavated from the Building 101 area, were added to the stabilized cell areas.

A final site walkover was attended by ABB-ES, the RAC, ROICC, and FED on April 15, 1997. No outstanding issues or activities were identified by the parties in attendance. An RCRA closure report for PSC 42 will be prepared by ABB-ES after receipt of the Final Construction Completion Report prepared by the RAC.



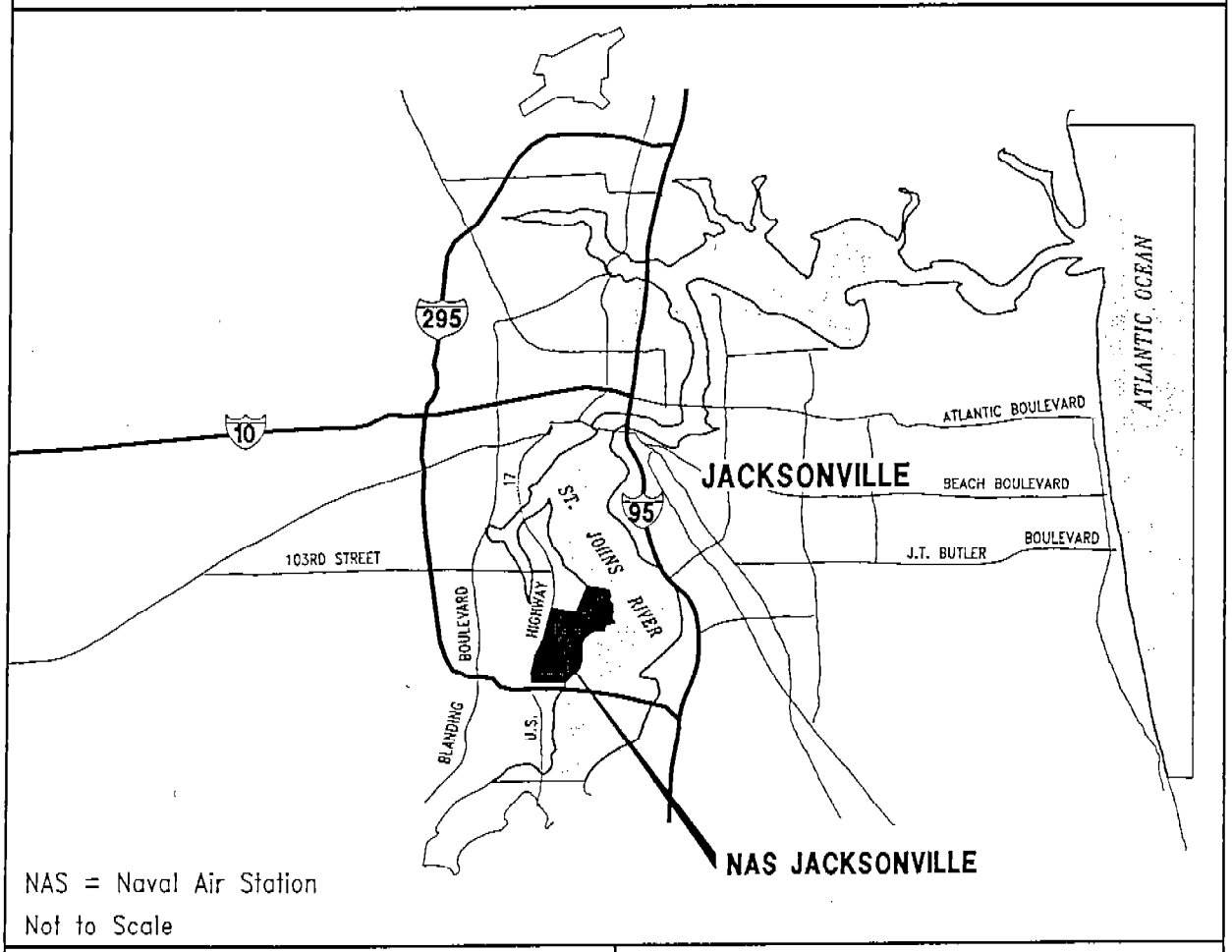


FIGURE 1
FACILITY LOCATION MAP

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SITE ACTIVITIES REPORT, POTENTIAL SOURCE OF CONTAMINATION 42

NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

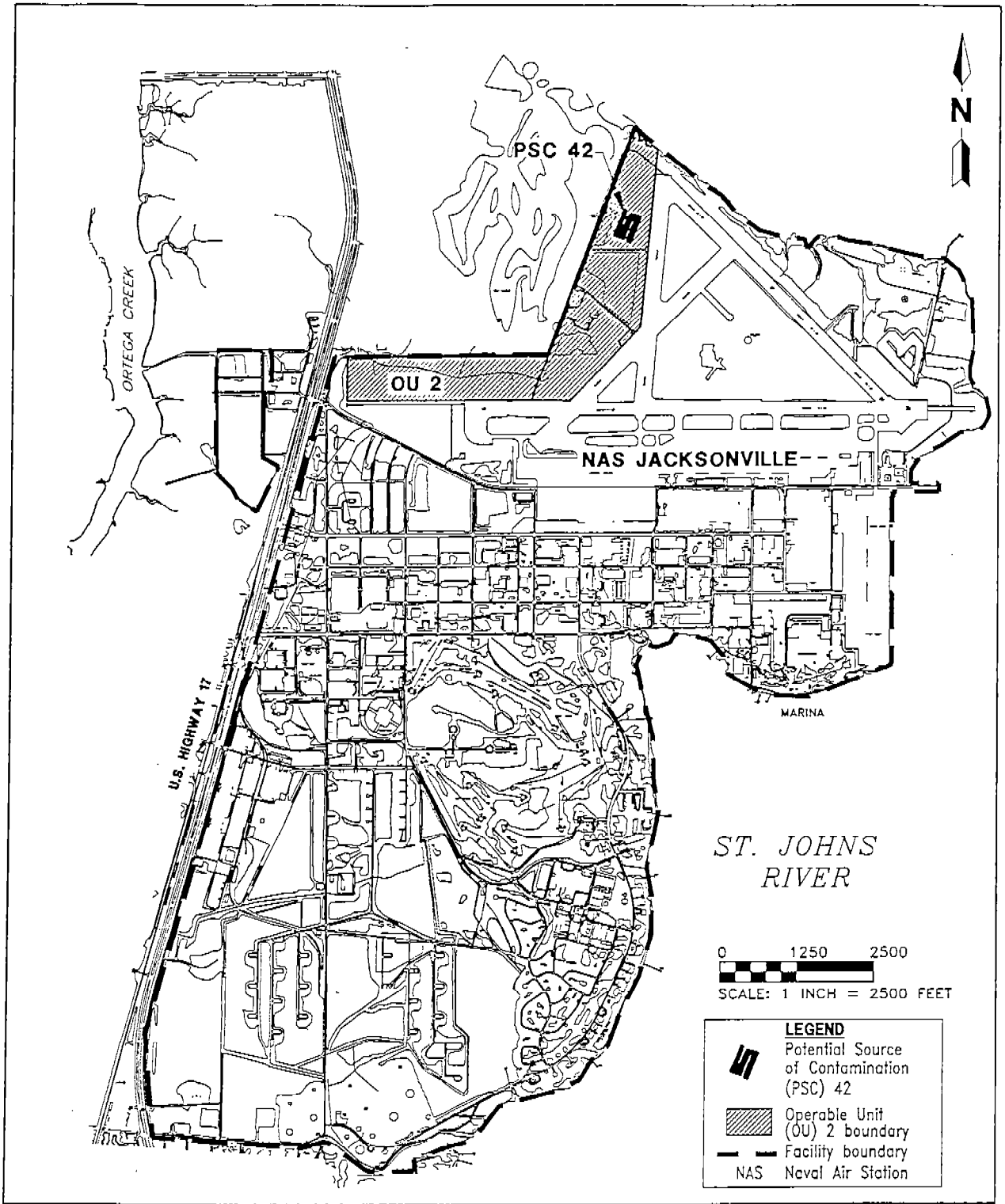

FIGURE 2
FACILITY MAP AND LOCATION OF PSC 42

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SITE ACTIVITIES REPORT, POTENTIAL SOURCE OF CONTAMINATION 42

NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

2.0 REMEDIAL OBJECTIVES

Five inorganic elements (cadmium, chromium, lead, nickel, silver) that were present in the sludge at PSC 42 were identified in the IROD as the contaminants of concern for the stabilization process. The primary cleanup objectives for the solidification/stabilization process are listed as follows:

- Toxicity Characteristic Leaching Procedure (TCLP) extract concentrations at or below the following concentrations for the five metals:

Cadmium (Cd)	0.19 milligrams per liter (mg/ℓ)
Chromium (Cr)	0.86 mg/ℓ
Lead (Pb)	0.37 mg/ℓ
Nickel (Ni)	5.00 mg/ℓ
Silver (Ag)	0.30 mg/ℓ

- Unconfined compressive strength of the stabilized material to be 30 pounds per square inch (psi) after 14 days of wet curing.

3.0 STABILIZATION

3.1 STABILIZATION PROCEDURE

The polishing pond was conceptually divided into sequential cells with approximate dimensions of 40 feet (N-S) x 100 feet (E-W) for stabilization. Initially, water structures provided by Reef Industries were used for division between each of the identified cells (42 total). These structures consisted of two polyethylene inner tubes encased by a geotextile outer tube. After placement of the uninflated water structure across the approximate 100-foot width of each pond finger (three fingers total), the two inner structures were filled with pond water, causing them to conform to the bottom of the pond, thereby creating a dam between adjacent cells. Width of the inflated structures was approximately 12 to 15 feet. Problems were encountered with use of the water structures, including bursting and rolling. After approximately nine cells had been stabilized, the approach was modified to allow water structures or earthen dikes to segregate larger portions of the pond at one time. Larger areas were dewatered as a whole unit. Within these areas, physical barriers were not provided nor specifically marked between the conceptually individual cells; however, stabilization continued to be performed in the originally sized cell areas approximating 40 feet x 100 feet, as shown in the Appendix B map.

Established cells or working units of multiple cells were dewatered, prior to stabilization, by pumping water from the cell(s) to unstabilized portions of the pond. Overall water level in the pond was controlled by pumping excess water into two 50,000-gallon holding tanks, as necessary. Water in the holding tanks was analyzed for criteria established by the Navy, to allow discharge to the federally owned treatment works (FOTW). A mobile filtration and ion-exchange type water treatment plant, capable of treating up to 50 gallons per minute, was staged on site to be used if the pond water failed to meet discharge criteria. The treatment skid was tested on November 6, 1996, by treating 1,400 gallons of very turbid pond water. Pond water was sampled before and after treatment. Analytical results confirmed the treatment unit was capable of treating the pond water to meet discharge requirements for disposal to the FOTW. Throughout the duration of the project, high pH was the only discharge parameter that untreated pond water occasionally exceeded. This was due primarily to the

basic (high pH) nature of the concrete mix, prior to stabilization. In those cases, hydrochloric acid was mixed with water in the holding tanks until the pH reached an acceptable level (pH 5.5-9.5) for discharge to the FOTW.

Stabilization of a dewatered cell was accomplished using a hydro-injector process. A slurry mix composed of Portland Type I cement mixed with pond water was pumped from a batch mixing unit to a mixing rake with four mixing/jetting (injector) tines. The slurry feed and mixing unit was attached to the boom of a Caterpillar 235 trackhoe (Bechtel, 1996). Slurry mix was raked into the dewatered sediments and sludge, penetrating 18 inches into native soil underlying the sediments and along the sides of the polishing pond. The required overlap with the previously stabilized (only partially cured) and adjacent cell was 2 feet. The density of the slurry mix was generally 14-15 pounds per gallon and the pumping rate was 3 barrels per minute (42 gallons per barrel). Approximately 110-120 tons of Portland cement were used in the stabilization of each cell in the polishing pond.

Note: The volume of cement used to stabilize a cell was dependent on the stabilization thickness (sludge depth plus 18 inches of adjacent and underlying native soil) and the density of the material to be stabilized. After a cell was dewatered, a sample of sludge and underlying sediment were mixed with the injector tines, and a sample of the mixture was collected for field determination of the mixture density. The operators of the cement slurry pump used tables developed by ENRECO, the manufacturer of the stabilization equipment, to determine proper mixing times for each 180-square-foot area of stabilization in a cell. The 180-square-foot area was based on a 30-foot reach of the trackhoe arm and the 6-foot-wide span of the metal backbrace to which four injector tines were welded (mixing rake). Mixing times provided in the tables were based on stabilization depth, density of the sludge/sediment mixture, and density of the cement slurry. A sample of mixed sludge/sediment was collected once in each cell to determine density. During stabilization, density of the cement slurry was tested periodically at the batch mixing unit. Mixing times for each 180-square-foot area were adjusted to reflect changes in the slurry density.

As stabilization progressed and acceptable analytical results were received on the previously stabilized cells, the RAC began to backfill over the acceptably stabilized material with fill derived from the adjacent dikes and the excavation of a retention pond in the Timuquana Country Club, adjacent to NAS Jacksonville. The backfill was placed in a maximum of 12-inch compacted lifts. Compaction was required to meet 85 percent maximum dry density. Compaction tests were performed using a nuclear densitometer in accordance with American Society for Testing and Materials (ASTM) 2922-91, at a frequency of one test every 250 yd^3, but not less than one test per lift. The final grade after completion of the IRA and addition of the backfill was 1-1.5 percent from center to edge of the project site. Once completed, the final cover was hydroseeded with a mixture of local grasses to provide erosion and runoff control.

3.2 INCORPORATION OF OTHER MATERIALS IN PSC 42

During the course of remediation at PSC 42, contaminated material from other locations on NAS Jacksonville were brought to the polishing pond and incorporated in the stabilization process. Approximately 817 yd^3 of soil were brought to PSC 42 from a new foundation excavation at Building 101, an old electroplating shop. In addition, approximately 20 yd^3 of dried sludge were added. The sludge was taken from surface layers and piles identified at PSC 3 and PSC 4, the former wastewater treatment plant sludge disposal areas, both within OU 2. The soils from Building 101 and PSCs 3 and

4 were spread in dewatered cells and incorporated in the stabilization process for those cells. The soils from Building 101, PSC 3, and PSC 4 were contaminated with RCRA-listed hazardous wastes having the same waste codes and source (F006 and F019) as the sludge at PSC 42.

In addition to the soil from Building 101, approximately 728 yd^3 of excavated concrete (also from Building 101) were brought to PSC 42. The concrete was pressure washed, placed on top of stabilized cells, and covered with backfill.

As part of the IRA for PSC 42, approximately 3,000 yd^3 of stabilized and solidified sludge material that were excavated from PSC 41 (also within OU 2) were brought to PSC 42 and spread on top of stabilized cells. The solidified material consisted of residual sludges and native soil overcuts from PSC 41(domestic wastewater sludge drying beds) and PSC 43 (industrial wastewater sludge drying beds), which were excavated and stabilized on site in 1995. The stabilized material from both PSCs was temporarily placed in the PSC 41 excavation. The PSC 41 and PSC 43 sludges had been classified with the same RCRA-listed waste codes as those in PSC 42 and were originally derived from the same source. Clean backfill was placed on top of the PSC 41 material after it was deposited at PSC 42. PSCs 41 and 43 were part of the same wastewater treatment system as the polishing pond. It should be noted that the RCRA Closure report for PSC 43 has been submitted to the Florida Department of Environmental Protection and is awaiting approval. Preparation of the PSC 41 RCRA Closure report is currently in progress.

Cells that had offsite materials either backfilled over them or incorporated in the stabilization process are identified on the map of cell stabilization/solidification in Appendix B and in Table 1. Minor discrepancies between field notes taken by ABB-ES and the RAC were noted, as indicated in Table 1. Disparities were minor and may be attributed to estimation differences (for backfilled cells) because cell boundaries were not surveyed and were somewhat difficult to discern once stabilized.

4.0 SAMPLING PROCEDURE

The sampling frequency for PSC 42 was based on stabilized cell volumes of approximately 500 yd^3. For each 500 yd^3 of stabilized material, one composite strength sample (unconfined compressive strength) and one composite TCLP sample (Cd, Cr, Pb, Ni, Ag) were to be taken. Some cells, where thick sludge layers were encountered, required the stabilized volume to exceed 500 yd^3, so two composite samples each for TCLP and unconfined compressive strength were collected. In these cases, the cells were typically divided into halves denoted 'A' and 'B' or 'west' and 'east' for sampling purposes. A total of 42 cells was stabilized in the polishing pond. The numbering sequence for cells was modified during the course of the remediation. Areas that had water structures over them prior to stabilization were initially given the same number as the preceding cell, with an "A" designation to differentiate them, e.g., cell 1A was the location of the water structure between cells 1 and 2. After cell 7 was completed, the RAC decided to number cells sequentially. The previously stabilized cells 1, 1A, 2, 2A, 3, 3A, 4, 4A, 5, 6, and 7 were renumbered 1 through 11, respectively. For the remainder of the polishing pond, stabilized cells were numbered sequentially 12 through 42 (Appendix B).

4.1 UNCONFINED COMPRESSIVE STRENGTH

To ensure compliance with design criteria developed for the IRA, samples were collected from each stabilized cell and analyzed for unconfined compressive strength (ASTM 2166). Strength samples

Table 1
Placement of Off-Site Materials in Potential Source of Contamination 42

Site Activities Report
Potential Source of Contamination 42
Naval Air Station Jacksonville
Jacksonville, Florida

Off-Site Material	Cell Numbers	
	ABB-ES Field Notes	RAC Field Notes
PSC 41 - Solidified/stabilized material: used as backfill.	8 to 10, 15 to 19	10 to 17
PSCs 3 and 4 - Previously dried sludge: stabilized.	25 to 27	25 to 27
Building 101 - Soil: stabilized.	10 11 13 14 18 19 25 26 27 29 30 34	10 12 13 14 18 19 25 26 27 29 30 34
Building 101 - Concrete: placed on top of stabilized cells.	1 to 7, 27	1 to 5, 27

Cells backfilled with PSC 41 material, as noted on the Appendix B map, are inclusive of the full range of cells identified in ABB-ES's and Bechtel Environmental, Inc.'s, field notes data (i.e., cells 8 - 19 inclusive).

Note: ABB-ES = ABB Environmental Services, Inc.
RAC = remedial action contractor.
PSC = potential source of contamination.

were generally collected on the same day that stabilization occurred, but occasionally were collected the following morning. Three locations were sampled in each cell and combined to form one composite sample. If the stabilized cell overlapped a previously stabilized cell on either side, one of the three samples was generally collected from the overlapped area.

Various sampling techniques for unconfined compressive strength were employed throughout the duration of stabilization. Initially a split-spoon sampler was used to collect samples from a small, flat-bottomed boat. The high viscosity of stabilized material prevented it from flowing into the small opening of the split spoon, making it difficult to retrieve representative samples. Next, plastic split-spoon sleeves were used to collect samples from a boat. The rigid sleeves were pushed to native soil. After reaching the specified depth, a hand was cupped over the open end to create a vacuum in order to hold the sample while the sleeve was lifted. The third technique used to collect samples for this test included use of a backhoe bucket to collect samples from the perimeter of a cell and at the full reach of the backhoe bucket arm. Samples were collected from the bucket using a stainless steel spoon. Adequate samples were eventually obtained using each technique; however, the latter two methods seemed to achieve the most representative samples.

4.2 TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Composite TCLP samples were collected from each stabilized cell and analyzed (USEPA SW846) for compliance with the contaminant concentrations listed in Section 2.0. If a cell overlapped a previously stabilized cell, one sample was generally collected from the overlap area. TCLP samples were collected using a hand auger once a stabilized cell was firm enough to walk on, generally one day following stabilization. Stabilized material was hand augered to the depth of native soil, allowing ABB-ES and the RAC to verify the homogeneity of the stabilized mixture. A small amount of stabilized material was retrieved with a stainless-steel spoon each time the auger bucket was brought to the surface. The vertical composites from each augered hole were collected to represent the full depth of stabilization. Material collected from each sample location in a stabilized cell was mixed together in a stainless-steel bowl to form a composite for analysis.

5.0 SAMPLING RESULTS

5.1 UNCONFINED COMPRESSIVE STRENGTH

Although all cells reached the required compressive strengths by project completion, initial samples taken in cells 4, 7, and 10 failed to reach the design criteria of 30 psi after 14 days. The cells were resampled with a core drill 5-6 weeks later, and the strength of each core sample exceeded 30 psi, thus meeting the design intent. Because appropriate sampling techniques were still under development during the early part of this project, the initial three test failures noted may have been attributed to refinement of procedures. Samples in six other cells did not reach a strength of 30 psi after 14 days of curing, but did meet the design strength after 21 to 30 days, thus meeting the overall design intent for strength of the stabilized mixture. When sampling cell 21 for TCLP (hand auger), unstabilized sludge was encountered in the bottom 12-18 inches at one sampling location. The RAC restabilized a 30 foot x 30 foot area around the TCLP sampling location 4 days later. One sample for unconfined compressive strength was collected in the restabilized area. Strength of the restabilized mixture exceeded 30 psi. Analytical results for unconfined compressive strength are contained in Appendix C.

5.2 TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Analytical data for the TCLP samples from each cell stabilized in PSC 42 were below the contaminant concentrations listed in Section 2.0. TCLP analytical results for cells 1 to 42 are contained in Appendix D. During the break in remediation activities (June 13 to August 12, 1996), a water structure separating stabilized cell 9 from the unstabilized portion of the polishing pond failed, leaving cell 9 submerged by pond water. A water structure installed on the unstabilized cell 8 area remained intact during the delay in work, preventing flooding of stabilized cells 1 through 7. (Cell 8 refers only to the area beneath the water structure). When remedial work resumed and pond water was removed from the stabilized cell area, the top 1 foot of cell 9 was resampled for TCLP in the same way as previously specified to ensure that the standing pond water on cell 9 had not recontaminated the stabilized material. Results indicated that cell 9 had not been recontaminated.

REFERENCES

ABB Environmental Services, Inc. (ABB-ES). 1995a. *Focused Remedial Investigation and Feasibility Study, Potential Sources of Contamination 3 and 42 at Operable Unit 2, Naval Air Station Jacksonville, Jacksonville, Florida*. Prepared for Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM), North Charleston, South Carolina (April).

ABB-ES. 1995b. *Interim Record of Decision (IROD), Potential Source of Contamination (PSC) 42, Operable Unit 2, Naval Air Station Jacksonville, Jacksonville Florida*. Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina (June).

Bechtel Environmental, Inc. 1996. *Interim Remediation Work Plan Serpentine Pond (PSC 42) In-Situ Sludge/Soil Stabilization for Naval Air Station Jacksonville, Florida* (February).

APPENDIX A

SITE VISIT FORMS

ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 3-17-97
ABB-ES
Project No.: 8587.41
Weather: light wind,
70 degrees, sunny

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Don Haumann
BEI: BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Continued backfilling of east leg.
- Slurry unit dismantled and removed by ENRECO (water treatment skid still on-site). Concrete which had collected beneath slurry unit being broken up with backhoe and placed on stabilized surface of cell 42 (to be covered with backfill).
- Flushing conveyance piping (from modu-tanks to PWC) with water. Piping will also be flushed with bleach. The above-ground piping will then be removed by BEI.

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-10 (roll 13) Backfilling east leg. Foreground: slurry unit has been removed from site; concrete being broken up with backhoe.

Comments

When modu-tanks were dismantled, liners were pressure-washed, cut up, and placed in roll-off.

Submitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

COPIES TO:
Project File
ROICC

ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 3-13-97
ABB-ES
Project No.: 8587.41
Weather:

ON-SITE PERSONNEL
ABB-ES:
BEI
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

Progress of demob. activities was discussed during weekly QC meeting:

- 5 wells to be re-installed: 4 replacement wells, 1 well requested by FED
- 4-inch water line will be disconnected, stubbed.
- Decon. pad will be broken up, placed on stabilized soil and buried
- Slurry equipment to be shipped on 3-17

Sampling/Testing Performed

Rinsate sample taken off decon. pad Wed., March 12

Rinsate sample taken off injectors Wed., March 12

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

Submitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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Project File
ROICC

ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 3-11-97
ABB-ES
Project No.: 8587.41
Weather: 80 degrees, partly sunny

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Adib Rahounji
BEI: Bill Norton, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Backfilling eastern leg of pond
- Both modu-tanks are dismantled

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-8 (roll 13) hauling soil from Timuquana pile, for backfilling east leg

P-9 and P-10 (roll 13) Backfilling east leg

Comments

Compaction testing on backfill scheduled for 3-12.

Submitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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ROICC

ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 3-06-97
ABB-ES
Project No.: 8587.41
Weather: 75 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Norton, Rountree
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

BEI continuing demobilization activities:

- continued cleaning equipment
- 100-ton tanker that was used to store dry cement was taken off-site

Sampling/Testing Performed

TCLP samples for cells 41 and 42 were collected on 3-04-97

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

During the weekly QC meeting, ABB, BEI, ROICC and FED agreed that a rinsate sample should be collected from the decon. pad concrete before it is dismantled and disposed, as well as one rinsate sample from the CAT 235. The samples should be analyzed by a NEESA certified laboratory for total metals.

Submitted by:
3B Environmental Services, Inc.
Erin C Allen
Field Engineer

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Project File
ROICC

ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 3-03-97
ABB-ES
Project No.: 8587.41
Weather:

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Bill Norton, Tom Rountree, Steve SantaMaria, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

Stabilization re-work: Cells 41 and 42

Sampling/Testing Performed

Cell 42 sampled for strength

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-6 (roll 12) Stabilizing cell 42, around inlet pipe

P-7 (roll 12) Stabilizing cell 42

Comments

Submitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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ROICC

ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 2-27-97
ABB-ES
Project No.: 8587.41
Weather: sunny 85 degrees

ON-SITE PERSONNEL
ABB-ES:
BEI
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

Stabilization substantially complete

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

Submitted by:
3B Environmental Services Inc.
Trina C. Allen
Field Engineer

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Project File
ROICC

ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 2-26-97
ABB-ES
Project No.: 8587.41
Weather: am: light rain, cloudy; pm: sunny, 73 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: SantaMaria, Norton, Stone, Rountree, Obenauer, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

Stabilized eastern 3/4 of cell 41. A gear on the slurry pump sheared, preventing completion of the cell.

Sampling/Testing Performed

Sampled cell 39 for TCLP

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-1(roll 13) Stabilizing cell 41

P-2 (roll 13) Stabilizing cell 41 (stabilized cells 29to 40 in background)

P-3 (roll 13) Backfill over western 2/3 of pond

Comments

BEI used water from Modutank for stabilization, rather than drawing FOTW water from sleuce gate. This was done to try to use up most of the remaining water that was pumped from the pond.

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Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 2-25-97
ABB-ES
Project No.: 8587.41
Weather: windy, afternoon rain, 55 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Norton, Rountree, SantaMaria, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Stabilized cell 40
- Surveyed surface elevations of stabilized cells 31 to 39, and backfill over western 2/3 of pond

Sampling/Testing Performed

- Sampled cell 38 for TCLP
- Sampled cell 40 for strength

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 2-24-97
ABB-ES
Project No.: 8587.41
Weather: windy, cloudy, 57 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Norton, SantaMaria, Stone, Rountree, Rogers, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Stabilized cell 38
- Stabilized cell 39
- Pumped pond water to FOTW

Sampling/Testing Performed

- Sampled cell 38 for strength
- Sampled cell 39 for strength
- Sampled cell 37 for TCLP (sampled by Tom Rountree on 2-21-97)

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 2-20-97
ABB-ES
Project No.: 8587.41
Weather: cloudy, 78 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: B. Norton, J. Stone, T. Rountree, S. SantaMaria, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

Stabilized cell 37

Sampling/Testing Performed

Sampled cell 37 for strength

Sampled cell 36 for TCLP

Sampled west end of cell 35 for TCLP

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

Modutank (nearest decon pad) has been dismantled

Riprap has been removed from spillway at SE corner of pond

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 02-19-97
ABB-ES
Project No.: 8587.41
Weather: cloudy, 75 degrees

ON-SITE PERSONNEL
ABB-ES: Srin Kuchibotla
BEI: Steve SantaMaria, Tom Rountree
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

Stabilized Cell 36

Finished stabilizing cell 35 (western edge)

Sampling/Testing Performed

Sampled Cell 35 for TCLP

Sampled Cell 36 for strength (the composite sample included one location from portion of Cell 35 stabilized today)

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 2-18-97
ABB-ES
Project No.: 8587.41
Weather: sunny, 70 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Srin Kuchibotla
BEI: Bill Norton, Tom Rountree, BECON, John Stone
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

Stabilized most of Cell 35 (western edge of cell to be stabilized on 2-19)

Sampling/Testing Performed

Sampled cell 35 for strength

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-11 (roll 12) Stablizing cell 35

P-12 (roll 12) Western 2/3 of pond, backfilled

Comments

BEI did not work on 2-17, for President's Day

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 02-13-97
ABB-ES
Project No.: 8587.41
Weather: 50 degrees, cloudy

ON-SITE PERSONNEL
ABB-ES: Srin Kuchibotla
BEI
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

Equipment repairs and maintenance

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 02-12-97
ABB-ES
Project No.: 8587.41
Weather:

ON-SITE PERSONNEL
ABB-ES: Srin Kuchibotla
BEI: Tom Rountree, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

Equipment repair and maintenance

Sampling/Testing Performed

Sampled Cell 34 for TCLP

Performed compaction tests on lifts 1 and 2 of backfill in middle leg

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 2-11-97
ABB-ES
Project No.: 8587.41
Weather: 60 degrees, cloudy

ON-SITE PERSONNEL
ABB-ES: Srin Kuchibotla
BEI: Steve SantaMaria, Tom Rountree, BEI
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

Stabilized Cell 34. (Some Building 101 soil in cell)

Sampling/Testing Performed

Sampled Cell 34 for strength

Sampled west end of cells 29 and 30 (area stabilized on 2-10-97 for TCLP)

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 2-10-97
ABB-ES
Project No.: 8587.41
Weather: windy, morning rain, 65 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: John Stone
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Finished stabilizing west edge of cells 29 and 30
- Compacted PSC 41 backfill
- Put old injector tines back on CAT 235, as new tines have cracked seal
- Continued backfilling middle leg of pond

Sampling/Testing Performed

Sampled portion of cell 29 that was stabilized on 2-05-97 for TCLP

Sampled portion of cell 30 that was stabilized on 2-05-97 for TCLP

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 2-06-97
ABB-ES
Project No.: 8587.41
Weather: windy, sunny, 65 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Norton, SantaMaria, Rountree, Stone, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Maintenance on CAT 235
- Continued backfilling middle leg of pond with Timuquana soil

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 2-05-97
ABB-ES
Project No.: 8587.41
Weather: mostly sunny, 75 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Norton, SantaMaria, Stone, Rountree, BECON, Najmola, John Piccalo
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Stabilized most of cells 29 and 30. Buiding 101 soil was incorporated into these cells. A small area on the west side of the cells has not been stabilized, due to machinery problems.
- Continued backfilling middle leg of pond
- Continued pumping pond water to FOTW

Sampling/Testing Performed

Sampled cell 31 for TCLP

Sampled cells 29 and 30 for strength

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-9 (roll 12) Stabilizing cell 29

P-10 (roll 12) Eastern leg of pond

Comments

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Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 2-04-97
ABB-ES
Project No.: 8587.41
Weather: sunny, 75 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Steve SantaMaria, Bill Norton, Tom Rountree, BECON, John Stone
NAVY:
OTHER: Savannah River

Work Performed / Corresponding Sections of BEI Work Plan

- Stabilized cell 31
- Continued backfilling middle leg with Timuquana soil
- Began drawing water for stabilization from diversion chamber at southeast corner of site, as little pond water remains. Water flowing through the chamber is channeled to the chlorine contact chamber and discharged into the St. John's River.

Sampling/Testing Performed

Collected strength samples from cell 31

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 2-03-97
ABB-ES
Project No.: 8587.41
Weather: sunny, 75 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Bill Norton, Tom Rountree, BECON
NAVY:
OTHER: surveyors

Work Performed / Corresponding Sections of BEI Work Plan

- Equipment maintenance on CAT 235 and slurry pump
- Surveyors on site to determine volume of soil needed for final cover

Sampling/Testing Performed

Sampled cell 28 for TCLP

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 1-30-97
ABB-ES
Project No.: 8587.41
Weather: cloudy, 55 degrees, windy

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Fred Bragdon
BEI: B. Norton, S. SantaMaria, E. Najmola, T. Rountree, J. Stone, BECON
NAVY: Diane Lancaster, Jane Mears
OTHER: FDEP

Work Performed / Corresponding Sections of BEI Work Plan

- Completed stabilization of cell 28
- Continued pumping pond water to FOTW

Sampling/Testing Performed

Collected strength sample from cell 28

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

FDEP visited PSC 42

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 1-29-97
ABB-ES
Project No.: 8587.41
Weather: cloudy, windy, 60 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Bill Norton, Steve SantaMaria, Eddie Najmola, Tom Rountree, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

Began to stabilize cell 28, which is the area that was beneath the clay extension of eastern finger. Problems with water pump of the slurry unit caused stabilization to stop

Continued pumping pond water to FOTW

Sampling/Testing Performed

Sampled cell 32 for TCLP

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-5 (roll 12) Stabilizing cell 28
P-6 (roll 12) Clay soil from extension of eastern finger piled north of cell 28
P-7 (roll 12) Sludge that was pushed out from under clay extension of eastern finger
P-8 (roll 12) Stabilizing cell 28

Comments

BEI will not sample the re-worked area in cell 21 for TCLP. After the cell was initially stabilized, a composite sample for TCLP was collected. The sample was biased, with sludgy material, and the analytical results passed.

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Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 1-28-97
ABB-ES
Project No.: 8587.41
Weather: pt. sunny, 72 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Bill Norton, John Stone, Steve SantaMaría, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Stabilized cell 32
- Continued pumping pond water to FOTW

Sampling/Testing Performed

Sampled cell 32 for strength

Sampled cell 33 for TCLP

eviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-4 (roll 12) Stabilizing cell 32

Comments

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Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 1-27-97
ABB-ES
Project No.: 8587.41
Weather: pt. sunny, 70 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Bill Norton, Tom Rountree, Steve SantaMaria, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Stabilized cell 33 (sketch attached)
- Continued pumping pond water to FOTW
- Scraped clay away from extension of eastern finger (Cell 28) in preparation for stabilization

Sampling/Testing Performed

Sampled cell 27 for TCLP

Sampled cell 33 for strength

Attempted to sampled re-worked area in cell 21 for TCLP using backhoe bucket, but material was too hard. BEI plans to use a core drill to sample the re-stabilized area

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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BB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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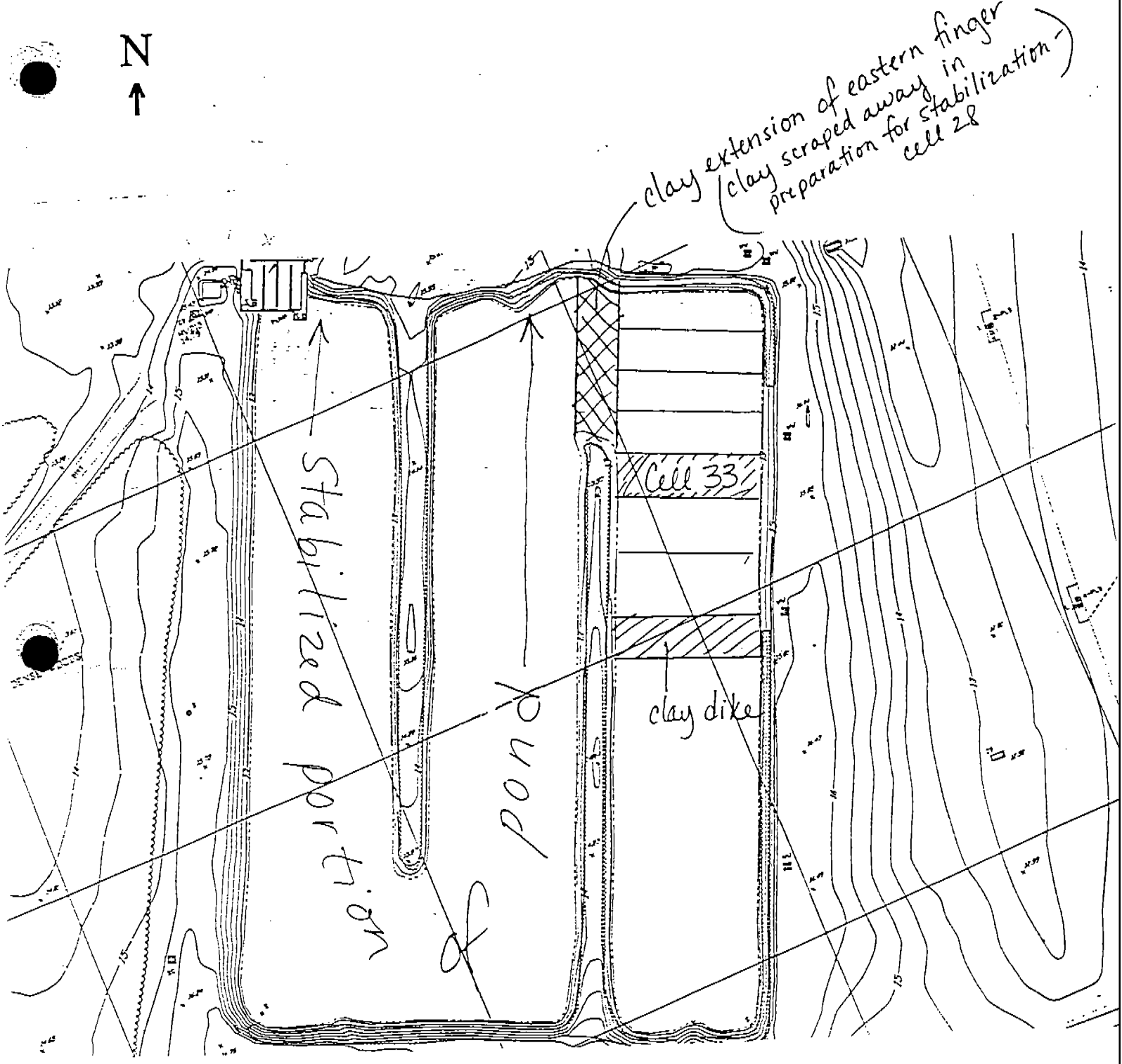
N
clay extension of eastern finger
(clay scraped away in
preparation for stabilization -
cell 2B
Cell 33
clay dike
stabilized portion
of pond

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 1-23-97	**ON-SITE PERSONNEL**
ABB-ES	ABB-ES: Erin Allen
Project No.: 8587.41	BEI: Steve SantaMaria, Bill Norton, Tom Rountree, John Stone, BECON
Weather: cloudy, 75 degrees	NAVY:
	OTHER: John Broumett - PWC

Work Performed / Corresponding Sections of BEI Work Plan

- Stabilized cell 27
- PWC delivered roll-off to site
- Continued pumping pond water to FOTW
- BEI brought more soil from Building 101 to site. Stockpiled the soil at NE end of pond. The soil will be stabilized during week of 1-27.

Sampling/Testing Performed

Collected strength samples from cell 27

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-2 (roll 12) Stabilizing cell 27 (S<N)

P-3 (roll 12) Middle leg of pond, completely stabilized (N<S)

Comments

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 1-22-97
ABB-ES
Project No.: 8587.41
Weather: partly sunny, 75 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Tom Rountree, Bill Norton, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Maintenance on slurry pump
- Site maintenance in preparation for FDEP visit

Sampling/Testing Performed

Sampled cell 26 (east side) for TCLP

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 1-21-97
ABB-ES
Project No.: 8587.41
Weather: Sunny, 65 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Bill Norton, Tom Rountree, John Stone, Rod Padgett, Tony Renk, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

Stabilized eastern 1/3 of cell 26, to finish the cell

Continued backfilling Timuquana soil at south end of west leg

Resumed pumping pond water to FOTW, as turbid samples collected on 1-16-97 met NPDES discharge limits. Public Works requested that BEI add a small amount of chlorine to the pond water prior to discharge to kill some algae in the water.

Sampling/Testing Performed

TCLP samples collected from western 2/3 of cell 26, stabilized on 1-20-97

Strength samples collected from eastern 1/3 of cell 26

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 1-20-97
ABB-ES
Project No.: 8587.41
Weather: 63 degrees, sunny

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Fred Bragdon
BEI: Bill Norton, Rod Padgett, Tom Rountree, John Stone, Hermann Bauer, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Stabilized western 2/3 of cell 26
- Added more Timuquana backfill to south end of west leg of pond
- Dewatered northern half of eastern leg, in preparation for stabilization

Sampling/Testing Performed

Sampled cell 26 for strength

Sampled cell 25A and 25B for TCLP

Attempted to sampled re-stabilized portion of cell 21, but material was too hard to hand auger. BEI will re-attempt hand augering tomorrow, or will propose an alternate method of sampling

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 01-17-97
ABB-ES
Project No.: 8587.41
Weather: windy, 40 degrees, mostly sunny

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Bill Norton, John Stone, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- BEI re-stabilized a 30 foot x 30 foot area at the southwest corner of cell 21, which was not adequately stabilized on 1-13-97.
- Finished building clay dike across center of eastern finger of pond

Sampling/Testing Performed

Sampled re-stabilized area in cell 21 for strength

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-25 (roll 11) Re-stabilizing southwest corner of cell 21 (W<E)

Comments

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Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 01-16-97
ABB-ES
Project No.: 8587.41
Weather: am: tornado warning; pm: cloudy, 70 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Steve SantaMaria, Tom Roumtree, Bill Norton, John Stone, Eddie Najmola, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Stabilized cell 25, which contained soils from Building 101 and PSCs 3 and 4
- Began building clay dike across center of eastern finger

Sampling/Testing Performed

- Sampled pond water in Modutank. Water appeared very turbid, so BEI plans to discontinue pumping water to FOTW until sample results are received.
- Collected two strength samples from cell 25. The stabilization depth of the cell was 6 feet, for a volume of almost 900 cubic yards. The work plan stipulates one sample per 500 cubic yards, making it necessary for two samples to be taken.
- Sampled cells 22, 23, and 24 for TCLP

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-23 (roll 11) Building clay dike across center of eastern finger (S<N)

P-24 (roll 11) Stabilization of cell 25 (NW<S)

Comments

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Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 01-15-97
ABB-ES
Project No.: 8587.41
Weather: cloudy, windy, 67 degrees, rain in afternoon

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Bill Norton, Steve SantaMaria, Tony Renk, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Stabilized cell 23
- Stabilized cell 24
- Continued pumping pond water to FOTW
- Compacted Timuquana backfill in PSC 41 with trackhoe, and added more fill to bring level back to grade

Sampling/Testing Performed

Sampled cell 23 for strength

Sampled cell 24 for strength

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 01-14-97
ABB-ES
Project No.: 8587.41
Weather: cloudy, windy, 60 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Tom Rountree, Bill Norton, John Stone, Steve SantaMaria, Rod Padgett, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Stabilized cell 22
- Continued pumping pond water to FOTW
- Spread out PSC 41 stabilized material; covers cell 15 to 19
- Graded backfill in PSC 41 excavation to a smooth surface. Backfill will be compacted, and compaction testing will be performed.

Sampling/Testing Performed

Sampled cell 22 for strength

Sampled cell 21 for TCLP

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-20 (roll 11) PSC 41 backfilled with Timuquana soil; excavation and sampling are complete (N<S)

P-21 (roll 11) Excavated material from PSC 41 spread over stabilized cells 15 to 19 (N<S)

P-22 (roll 11) Stabilization of cell 22 (W<E)

Comments

One TCLP sampling location in cell 21 had 12 to 18 inches of unstabilized sludge beginning at a depth of 4 feet bls. BEI will re-stabilize this area of cell 21.

Submitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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ROICC

ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 01-13-97
ABB-ES
Project No.: 8587.41
Weather: Cloudy, windy, 55 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Fred Bragdon
BEI: Bill Norton, Steve SantaMaria, John Stone, Tom Rountree, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- BEI stabilized cell 21, which was the area beneath the clay berm built across the center of the middle leg
- Continued pumping pond water to FOTW

Sampling/Testing Performed

BEI completed sampling of PSC 41 (floor of excavation and sidewalls). The entire excavation was backfilled on 1-09-97 to prevent collection of rainwater. A backhoe was used to dig through the backfill to native soil to collect today's samples.

Sampled cell 21 for strength

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

ENRECO sent a new set of injector tines to PSC 42, as the other set has many cracks.

Submitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 1-09-97
ABB-ES
Project No.: 8587.41
Weather: cloudy, 60 degrees, afternoon rain

ON-SITE PERSONNEL
ABB-ES: Adib Rahounji
BEI: Bill Norton, Tom Rountree
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

BEI completed excavation of PSC 41 stabilized material

Completed backfilling PSC 41 excavation with Timuquana soil

Sampling/Testing Performed

BEI completed floor and sidewall sampling of two cells at PSC 41. Only the northernmost cell has not been sampled. BEI plans to sample it on 1-13-97.

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-17 (roll 11) South end of PSC 41 excavation, backfilled

P-18 (roll 11) Middle portion of PSC 41 excavation; rainwater collected on floor

P-19 (roll 11) BEI backfilling north end of PSC 41 excavation

Comments

Submitted by:
BB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 1-08-97	**ON-SITE PERSONNEL**
ABB-ES	ABB-ES: Erin Allen, Don Haumann, Adib Rahounji, Fred Bragdon
Project No.: 8587.41	BEI: Bill Norton, Tom Rountree, BECON
Weather: light rain, 60 degrees	NAVY:
	OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

BEI excavating PSC 41 material, from level of surrounding grade to plastic placed at base of stabilized material. Depth to plastic ranges from 2- to 2-1/2 feet bls. Excavation begun at south end of site. Some groundwater encountered at south end. The excavated material is being placed over PSC 42 stabilized cells at south end of middle leg, for backfill.

PSC 41 consisted of 5 "cells." All cells but the one at the north end were excavated. The two southernmost cells were backfilled with Timuquana soil, following sampling.

Sampling/Testing Performed

Samples were collected from the floor and sidewalls of southern two cells of excavation. The sidewall samples were collected with stainless steel spoon. The floor samples were collected by hand auger. A backhoe was first used to scrape away the layer of gravel that was placed between native soil and the stabilized material. A few sampling locations could not be sampled because groundwater was encountered.

eviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-4 through P-16 (roll 11) Excavation, backfill, and sampling of PSC 41 (below level of surrounding grade)

Comments

Submitted by:
BB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 1-07-97	**ON-SITE PERSONNEL**
ABB-ES	ABB-ES: Erin Allen
Project No.: 8587.41	BEI: Bill Norton, John Stone
Weather:	NAVY:
	OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Spreading soil excavated from PSC 3 and PSC 4 piles over Building 101 soil in dewatered area at north end of pond (see sketch).
- Continued pumping pond water to FOTW
- Moved clayey soil that was scraped from berm in middle of center leg to east side of pond. The soil will be used to build a berm in the center of the eastern leg (see sketch)

Sampling/Testing Performed

eviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-1 (roll 11) Clayey soil piled on east dike, in preparation for construction of a berm across the eastern leg of pond (S<NE)

P-2 (roll 11) Spreading building 101 soil and sludge from PSC 3 and PSC 4 over dewatered cells at north end of middle leg (SE<N)

P-3 (roll 11) Stabilized cells 14 to 20 (N<S). In foreground, clay berm across center of middle leg has been scraped away to point of saturated soil, in preparation for stabilization. The cell number will be 21.

Comments

The volume of soil excavated from PSCs 3 and 4 on 1-06-97 was approximately 20 cubic yards

ABB and BEI discussed the sampling procedures to be used for final sampling of the PSC 41 excavation. The decision was made to sample per the PSC 41/43 work plan, which calls for 25 floor samples, 7 sidewall samples, and 1 composite of all 32 samples. The matter is to be discussed at the weekly QC meeting on 1-09, to finalize the sampling procedure.

Submitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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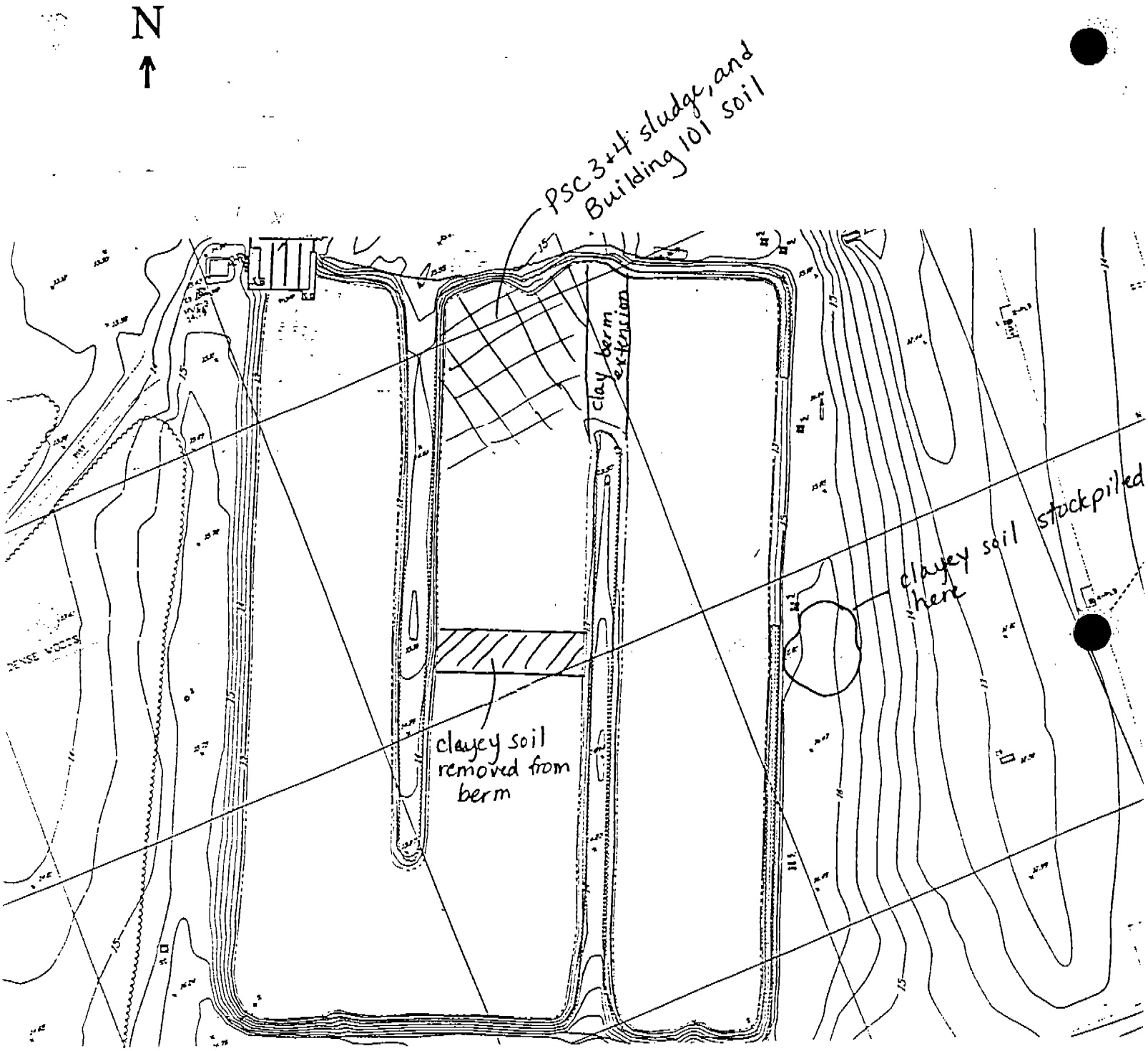
N
PSC 3+4 sludge, and Building 101 soil
clay berm extension
clayey soil stockpiled here
clayey soil removed from berm

ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 1-06-97
ABB-ES
Project No.: 8587.41
Weather: cloudy, 75 degrees, light rain in a.m.

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Fred Bragdon
BEI: Bill Norton, Tom Rountree, BECON, Steve SantaMaria
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Continued pumping pond water to FOTW
- BEI excavated 5 sludge piles and 1 sludge area from PSC 4 and 1 area from PSC 3 (locations on attached map). Contamination found in the piles has the same constituents as the sludge in PSC 42. The sludge was hauled to the north end of the middle finger, where it will be stabilized.
- BEI dumped the remaining Building 101 soil at the north end of the middle finger, which was dewatered on 1-02-97. The soils were spread out in preparation for stabilization.

Sampling/Testing Performed

ABB took soil samples from the ground beneath the excavated sludges at PSC 3 and PSC 4

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-12 (roll 10) Excavating sludge at PSC 4, pile 5

P-13 (roll 10) Fred Bragdon collecting soil samples at excavated area for pile 1, PSC 4

Comments

Submitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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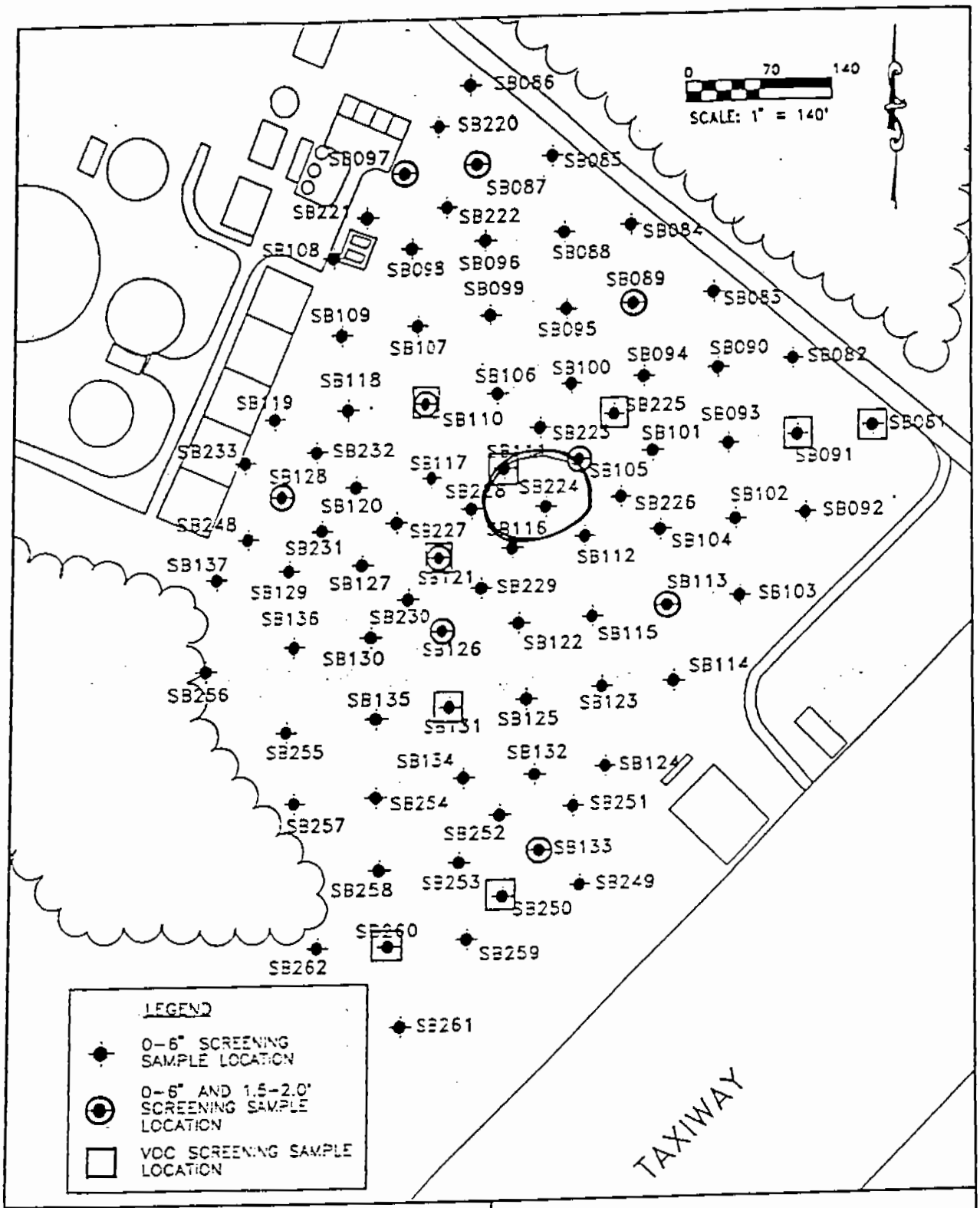

FIGURE 3-2
SOIL SCREENING LOCATIONS AT PSC 3, PARCEL 2

FOCUSED RI/FS FOR PSCs 3 AND 42 AT OU 2

NAS JACKSONVILLE JACKSONVILLE, FLORIDA

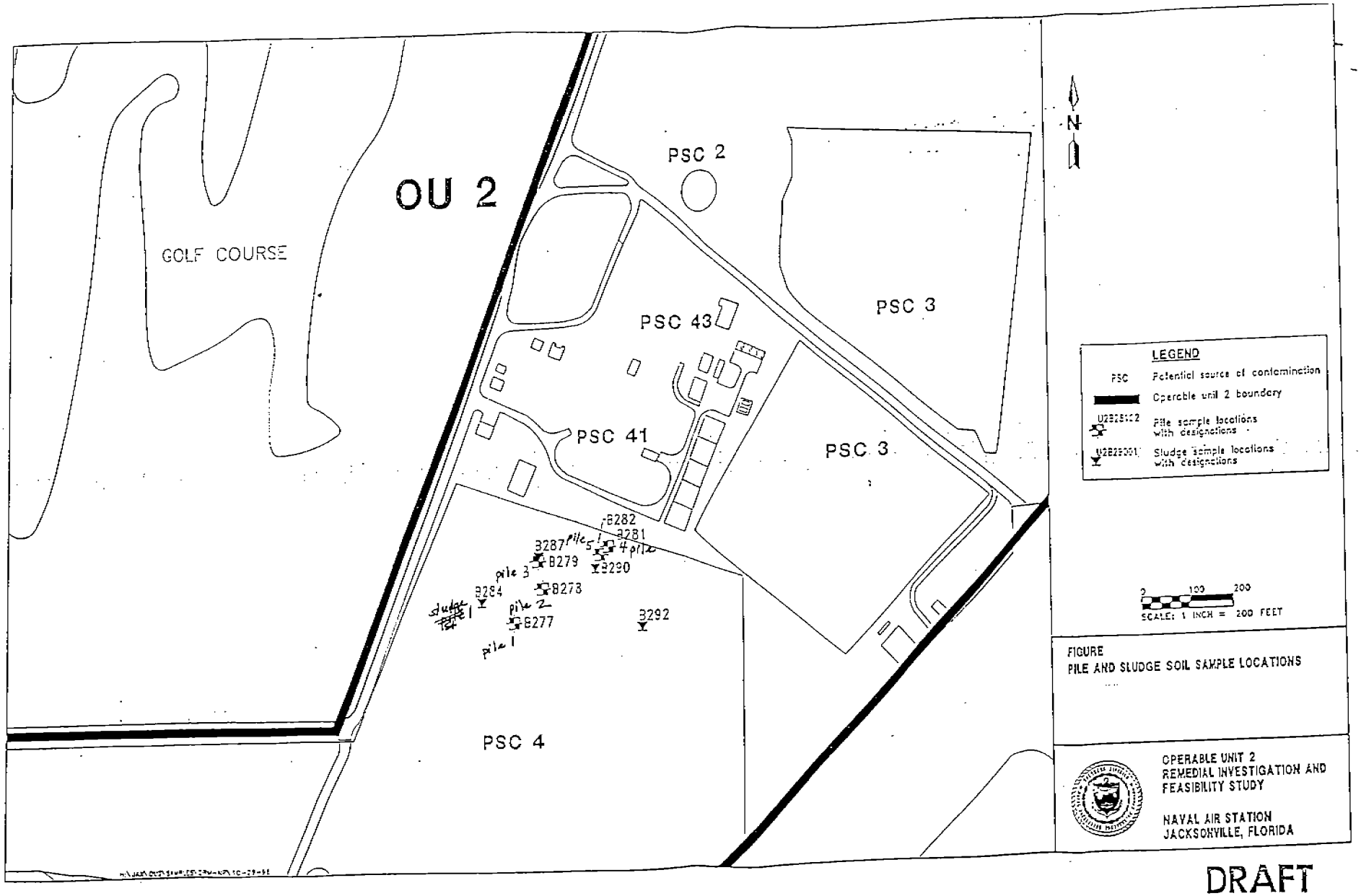
OU 2
GOLF COURSE
PSC 2
PSC 43
PSC 41
PSC 3
PSC 3
PSC 4
B282
B281
B287
pile 5
4 pile
B279
B290
pile 3
B284
B278
sludge
pile 2
B277
B292
pile 1
N
LEGEND
PSC Potential source of contamination
Operable unit 2 boundary
U2B25002 Pile sample locations with designations
U2B25001 Sludge sample locations with designations
0 100 200
SCALE: 1 INCH = 200 FEET
FIGURE
PILE AND SLUDGE SOIL SAMPLE LOCATIONS
OPERABLE UNIT 2
REMEDIAL INVESTIGATION AND
FEASIBILITY STUDY
NAVAL AIR STATION
JACKSONVILLE, FLORIDA
DRAFT

ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 1-02-97
ABB-ES
Project No.: 8587.41
Weather: am: foggy; pm: 74 degrees, sunny

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Don Haumann, Fred Bragdon
BEI: Bill Norton, Tom Rountree, Rod Padgett, BECON
NAVY: Larry Blackburn
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Built clay extension of eastern finger of pond
- Continued pumping pond water to FOTW
- Began dewatering cells 21 to 26

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-11 (roll 10) Extension of eastern finger with clayey soil. Dense fog. (NW<E)

Comments

BEI did not work on 1-01-97, New Year's Day. BEI will work Friday, Jan. 3, to continue dewatering cells 21 to 26 and begin placing remaining Building 101 soil in the dewatered area.

Brief weekly QC meeting was held between ABB, BEI and ROICC to discuss sampling procedures to the sidewalls and bottom of the PC 41 excavation. BEI plans to complete excavation of the material during the week of Jan. 13. A final for sampling will be discussed during the weekly meeting on Jan. 9.

Submitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 12-31-96
ABB-ES
Project No.: 8587.41
Weather: am: foggy, little wind; pm: mostly sunny, 75 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Bill Norton, Rod Padgett, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Finished stabilizing cell 19 (eastern 2/3) and the eastern edge of cell 20. This section of cell 20 was not completed when the rest on the cell was stabilized on Dec. 16, due to equipment problems
- Continued pumping pond water to FOTW

Sampling/Testing Performed

Sampled cell 18 for TCLP

Sampled cell 19 along with eastern edge of cell 20 for TCLP

mpled eastern 2/3 of cell 19 and eastern edge of cell 20 for strength.

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

ubmitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 12-30-96
ABB-ES
Project No.: 8587.41
Weather: mostly sunny, 72 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Bill Norton, Rod Padgett, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Stabilized cell 18
- Stabilized western third of cell 19
- Continued pumping pond water to FOTW
- Hauled clayey soil that was used for extension of western finger to northeast end of pond, where it will be used to extend eastern finger
- The potable water line to PSC 42 broke near the fire training area, and was repaired by BEI

Sampling/Testing Performed

Sampled cell 18 for strength

Sampled western portion of cell 19 for strength

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-9 (roll 10) Stabilization of cell 18 (W<E)

P-10 (roll 10) Clayey soil piled at northeast end of pond, to be used for extension of eastern finger (S<N)

Comments

More compaction tests were performed on backfilled soil over stabilized cells 1 to 14 during the week of 12-16-96. The tests met the compaction requirement. A new proctor was also completed.

Submitted by:
BB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 12-19-96
ABB-ES
Project No.: 8587.41
Weather: Rain, 45 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Bill Norton, Steve SantaMaria, Rod Padgett, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Stabilized cell 17
- Continued pumping pond water to FOTW

Sampling/Testing Performed

Sampled cell 17 for strength and TCLP

Sampled cells 15 and 16 for TCLP

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

Submitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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ABB Environmental Services, Inc.
1536 Kingsley Avenue; Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 12-18-96
ABB-ES
Project No.: 8587.41
Weather: Rain, 60 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Rod Padgett, Bill Norton, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Clay on western finger extension scraped away, and hauled to northeast end of pond. The clay will be used to build an extension of the eastern finger
- Stabilized cells 15 and 16 (cell 15 is the cell which was under the extension of the western finger)
- Continued pumping pond water to FOTW

Sampling/Testing Performed

Sampled cells 15 and 16 for strength

Sampled cell 20 for TCLP

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

Western leg of pond (stabilized cells 1 to 14) has been backfilled to grade of surrounding ground surface. The estimated volume of backfill, including Building 101 concrete, Timuquana soil, and PSC 41 stabilized material, is 8500 cubic yards.

Submitted by:
BB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 12-17-96
ABB-ES
Project No.: 8587.41
Weather: am: partly sunny, cool; pm: rain, 75 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Bill Norton, Tom Rountree, Rod Padgett, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Moved stockpiled soil from excavation of sewer line at Building 101 into cell #19, using excavator bucket on CAT 235
- Continued backfilling over stabilized cells at southwest end of pond
- Continued pumping pond water to FOTW

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

Submitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 12-16-96
ABB-ES
Project No.: 8587.41
Weather: am: 43 degrees, sunny, windy; pm: 65 degrees, cloudy

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Bill Norton, Tom Rountree, Rod Padgett, Dick Gere, BECON
NAVY: Larry Blackburn
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Stabilized cell #20, except for eastern edge. A bolt broke, which holds a pin in place on the injector tines, preventing completion of the cell. Sketch attached shows locations of clay dike and dewatered cells
- Continued pumping pond water to FOTW
- Continued backfill with Timuquana soil at southwest corner of pond

Sampling/Testing Performed

Three samples collected and composited for strength testing of cell #20.

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-4 (roll 10) Western one-third of pond, stabilized and backfilled nearly to grade (S<N)

P-5 (roll 10) Completed clay dike across center of middle finger of pond (S<N)

P-6 (roll 10) Stabilizing cell #20 (W<E)

Comments

- BEI worked on Saturday, Dec. 14 to dewater the southern half of the middle leg, in preparation for stabilization.
- BEI discovered that the inlet pipe at SE corner of pond was still leaking. Water from the collection chamber was leaking into the pond. BEI dug through the berm to the pipe, broke a hole in the top of the concrete pipe, and pumped grout into it. BEI believes the pipe is now fully grouted.

Submitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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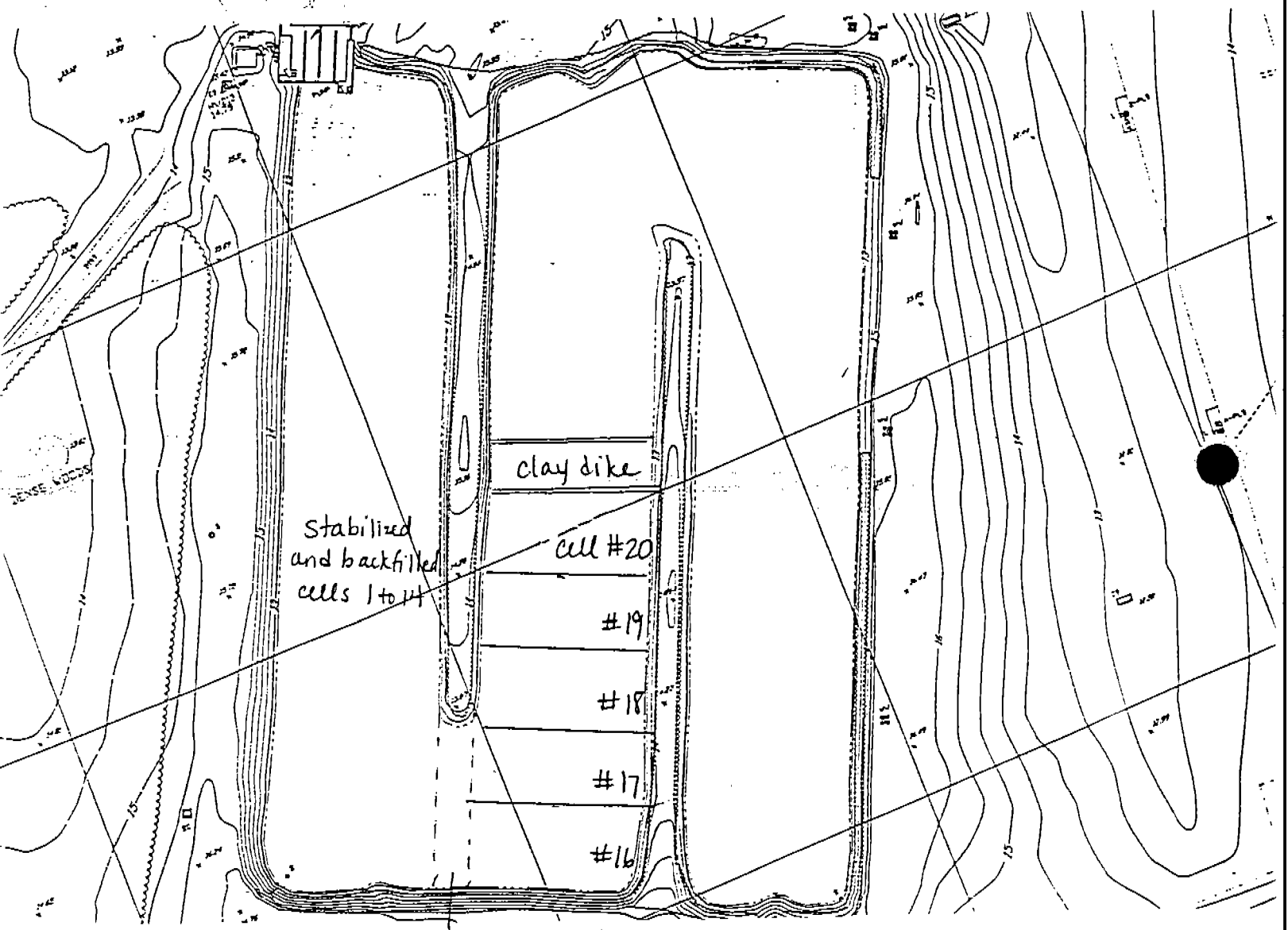

cell #20 stabilized 12-16-96

cells 16 to 19 dewatered but not yet stabilized

ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 12-13-96
ABB-ES
Project No.: 8587.41
Weather:

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Bill Norton, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

BEI excavated clay to ground level on western side of pond, to use for construction of a clay dike across center of middle pond leg. This dike is being installed to replace the two water structures which failed. It will enable BEI to dewater the southern half of the middle leg, for stabilization of 5 to 6 cells. (See attached sketch)

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-2 (roll 10) Installation of clay dike across center of middle pond leg (S<N)

P-3 (roll 10) BEI grading clay off top of dike along NW edge of pond, to use for construction of dike in center of middle pond leg (E<W)

Comments

BEI will work on Saturday, Dec. 14 to dewater the southern half of the middle pond leg, to prepare for stabilization on Monday, Dec. 16.

No site visit forms were completed for Dec. 11 and Dec. 12

Submitted by:
BB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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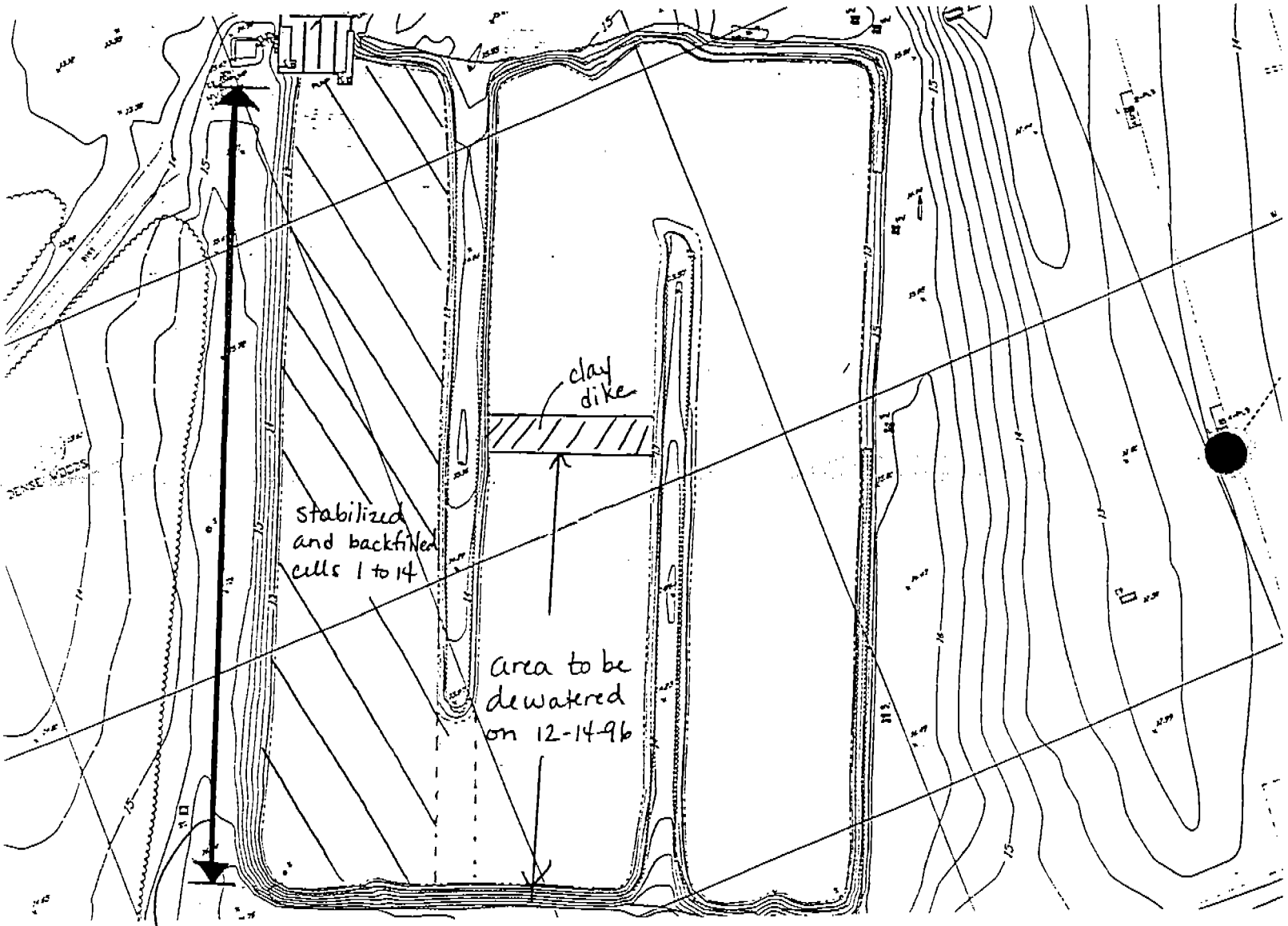
N
clay dike
Stabilized and backfilled cells 1 to 14
area to be dewatered on 12-14-96
area of berm excavated to grade, so that clay could be used to construct dike in middle leg of pond.

ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 12-10-96
ABB-ES
Project No.: 8587.41
Weather: sunny, 68 degrees, windy

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Tony Renk, Rod Padgett, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- BEI continuing to dewater pond
- BEI continuing to backfill over stabilized cells on western third of pond

Sampling/Testing Performed

Continued compaction testing of backfill (Timuquana soil)

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

BEI will continue to dewater portion of pond that is not yet stabilized. Samples of the pond water will be collected weekly. BEI will also continue to backfill stabilized cells with Timuquana soil and perform compaction tests. Stabilization activities and excavation of PSC 41 material will not resume until BEI returns to work (week of January 6) after a two-week holiday break. No site visit form was completed for 12-09-96.

Submitted by:
BB-Environmental Services, Inc.
Erin C. Allen
Field Engineer

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ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 12-05-96
ABB-ES
Project No.: 8587.41
Weather: am: cloudy; pm: light rain, 70 degrees

ON-SITE PERSONNEL
ABB-ES:
BEI:
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

Continued dewatering pond, discharge to FOTW

Sampling/Testing Performed

Sampled pond water being pumped to FOTW

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

- BEI will not resume stabilization until January
- The total amount of soil from Building 101 incorporated into PSC 42 was 817 cubic yards; the total volume of concrete placed on stabilized cells was 728 cubic yards

ubmitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 12-04-96
ABB-ES
Project No.: 8587.41
Weather: 70 degrees, partly cloudy, little wind

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Rod Padgett, Tom Rountree, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Continued dewatering of pond
- Continued backfilling of Timuquana soil over stabilized cells at SW corner of pond
- Surveyed level of backfilled soil at SW corner of pond

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

ıbmitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 12-03-96
ABB-ES
Project No.: 8587.41
Weather: clear, 70 degrees, light wind

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: BECON, Steve SantaMaria
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Continued pumping pond water to FOTW
- Began to backfill and compact Timuquana soil over stabilized cells 13 and 14

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

Submitted by:
BB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 12-02-96	**ON-SITE PERSONNEL**
ABB-ES	ABB-ES: Erin Allen
Project No.: 8587.41	BEI: BECON, Tom Rountree
Weather: clear, 64 degrees, little wind	NAVY:
	OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Equipment maintenance.
- Dewatering of pond. Heavy rains on 12-01 caused a rise in pond water level, and left standing water on backfilled cells and support areas.

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-1 (roll 10) PSC 41 stabilized material excavated to level of surrounding ground surface (N<S)

Comments

Submitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: Nov. 25, 26, 27	**ON-SITE PERSONNEL**
ABB-ES	ABB-ES:
Project No.: 8587.41	BEI
Weather:	NAVY:
	OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Continued dewatering pond
- The two water structures installed in middle pond leg failed, and were removed from pond
- Continued excavation of PSC 41 stabilized material. Stopped excavation at level of surrounding ground surface to avoid having an open excavation over the Thanksgiving weekend.

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

Submitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 11-21-96
ABB-ES
Project No.: 8587.41
Weather: cloudy, little wind, 76 degrees; afternoon rain

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Dick Geer, Bill Norton, Tom Rountree, Health and Safety supervisor from Oak Ridge, BECON
NAVY:
OTHER:CSI

Work Performed / Corresponding Sections of BEI Work Plan

- Installation of 6-foot water structure next to 9-foot structure in center of middle pond leg
- Continued excavation of PSC 41 material, and spreading and compacting over stabilized cells 8 to 10 at PSC 42

Sampling/Testing Performed

Compaction tests performed on PSC 41 material and Timuquana soil, for a total of 5 samples

Pond water sampled from modular tank, for weekly sample as agreed upon on 11-14-96 by BEI, ROICC, FED, ABB, and PWC

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

- Timuquana soil will be used to backfill excavation at PSC 42; backfill will be compacted to 85%
- BEI is pumping about 86,000 gal/day of pond water to FOTW
- In addition to sidewall samples to be taken from excavation at PSC 41, D. Lancaster requested that 5 samples be taken from the floor of the excavation. Samples will be analyzed per the Work Plan, for RCRA metals
- It was confirmed at weekly QC meeting that BEI needs only stabilize 18-inches into native soil on the pond fingers

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Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 11-20-96
ABB-ES
Project No.: 8587.41
Weather: little wind, mostly sunny, 72 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: T. Rountree, Bill Norton, BECON, Dick Geer
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Continued excavation of PSC 41 stabilized material, and spreading over cells 8 to 10
- Continued dewatering of pond, pumping directly to FOTW
- Installed 9-foot water structure in center of middle leg of pond

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-18 (roll 9) Excavation of PSC 41 material (N<S)

P-19 (roll 9) PSC 41 stabilized material

P-20 (roll 9) PSC 41 material being spread over stabilized cells 8 to 10 at PSC 42 (S<N)

P-21 (roll 9) Area of western finger keyed in for installation of two water structures, to be installed side-by-side in center of middle pond leg

P-22 (roll 9) Soil from excavation of Building 101 sewer main stockpiled and covered at NE edge of site (S<N)

Comments

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Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 11-19-96
ABB-ES
Project No.: 8587.41
Weather: 70 degrees, partly cloudy, little wind

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Fred Bragdon
BEI: Dick Geer, Bill Norton, Tom Rountree, BECON
NAVY: Anthony Robinson
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Continued hauling stabilized material from PSC 41 to PSC 42. Spreading PSC 41 material over stabilized cells, beginning just south of clay cap over building 101 concrete. Transported 850 cubic yards on 11-19.
- Continued dewatering eastern 2/3 of pond

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-16 and P-17 (roll 9) Excavation of PSC 41 stabilized material, south end of mound (SW<NE)

Comments

In a meeting with the Navy regarding PSC 43, Lissa Miller and Erin Allen discussed with Dana Gaskins and Anthony Robinson from SOUTHDIV the depth of excavation for PSC 41. It was agreed that BEI should excavate down to and including the plastic placed below the stabilized material.

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 11-18-96	**ON-SITE PERSONNEL**
ABB-ES	ABB-ES:
Project No.: 8587.41	BEI
Weather: sunny, 70 degrees, little wind	NAVY:
	OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Continued dewatering of eastern 2/3 of pond.
- Began excavation of PSC 41 material, and transported 50 cubic yards to PSC 42.
- Continued spreading and compaction of Timuquana soil over remainder of clay cap on Building 101 concrete.

Sampling/Testing Performed

Compaction tests performed on Timaquana soils compacted over remainder of clay cap.

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

BEI is not excavating PSC 41 material below mean ground level until more direction is received from partners regarding lower limit of excavation.

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 11-14-96
ABB-ES
Project No.: 8587.41
Weather: cloudy, windy 71 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Fred Bragdon
BEI: Dick Geer, Tom Rountree, BECON, Bill Norton
NAVY:
OTHER: CSI technician

Work Performed / Corresponding Sections of BEI Work Plan

- Completed compaction of clay cap over Building 101 concrete on stabilized cells 1 to 7
- Rebuilding water structures
- Pumped water in modular tanks to FOTW

Sampling/Testing Performed

- TCLP sampling of western half of cell 13, eastern half of cell 14, and western half of cell 14
- ABB hand-augured through clay cap over Building 101 concrete in 4 locations to verify 8-inch thickness
- Two compaction tests on clay cap over Building 101 concrete; two compaction tests of Timuquana soil over clay cap on cells 1 and 2

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-15 (roll 9) Compaction testing of clay cap over Building 101 concrete on stabilized cells (N<S)

Comments

In order to lower level of pond water about 2 feet in middle and eastern leg, BEI will now sample pond water only once per week, and will discharge water daily to FOTW. Refer to weekly QC meeting minutes.

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 11-13-96
ABB-ES
Project No.: 8587.41
Weather: windy, mostly sunny, 73 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Fred Bragdon, Mark Joop, Alex Olis
BEI: Dick Geer, Steve SantaMaria, T. Rountree, B. Norton, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Stabilized western end of cell 14, completing stabilization for the western leg of the pond.
- Finished covering Building 101 concrete on stabilized cells with clayey soil, and continued compacting the soil.
- Pumped water in Modutanks to FOTW and refilled tanks.

Sampling/Testing Performed

Sampled pond water pumped into Modutanks

Sampled west end of cells 13 and 14 for compressive strength

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-14 (roll 9) Compaction of clay cap over Building 101 concrete on stabilized cells (S<N)

Comments

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 11-12-96	**ON-SITE PERSONNEL**
ABB-ES	ABB-ES: Erin Allen, Fred Bragdon
Project No.: 8587.41	BEI: Bill Norton, Dick Geer, BECON
Weather:windy,	NAVY:
sunny, 63 degrees	OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Stabilized western edge of cell 13, completing the cell
- Stabilized eastern 2/3 of cell 14
- Filled Modutanks with pond water
- Completed dumping Building 101 concrete on stabilized cells. Placed clay cover over most of concrete. Concrete is spread across stabilized cells 1 to 7, with little concrete on cell 1

Sampling/Testing Performed

Collected strength sample for eastern half of cell 14

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-11 (roll 9) Stabilizing cell 14, with Building 101 soil (E<W)

P-12 and P-13 (roll 9) Dumping and spreading clayey soil from P-3 hangar over Building 101 concrete on stabilized cells (S<N)

Comments

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Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 11-11-96
ABB-ES
Project No.: 8587.41
Weather:

ON-SITE PERSONNEL
ABB-ES:
BEI
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

Stabilized middle of cell 13

Sampling/Testing Performed

Sampled middle of cell 13 for strength

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 11-07-96
ABB-ES
Project No.: 8587.41
Weather: 82 degrees, sunny

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Fred Bragdon
BEI: Rod Padgett, Tom Rountree, BECON, Bill Norton, Frank Cater
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Stabilized approximately 175 cubic yards of material in cell 13 (one strip across width of cell). Seal broke on slurry pump again, stopping stabilization
- Continued dumping Building 101 concrete on stabilized cells and covering with clayey soil.
- BEI began to pump water in Modutanks to FOTW, and 90-degree bend in transfer line near FOTW cracked. BEI repaired the transfer pipe.

Sampling/Testing Performed

Collected density sample for mixed sludge/sediment/Building 101 soil in cell 13, prior to stabilization

Collected TCLP sample, composited from 3 locations taken from west side of cell 12, and east side of cell 13. These areas were stabilized on 11-05-96. The total volume of the two stabilized areas did not exceed 500 cubic yards, so sampling the combined areas is acceptable.

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-4 (roll 9) Building 101 concrete spread over cells 1 to 5. At left, pile of clayey soil to be spread across concrete. Metal sheet piling from Building 101 also visible (S<N)

P-5 (roll 9) Collecting TCLP sample in cell 13.

Comments

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Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 11-06-96
ABB-ES
Project No.: 8587.41
Weather: a.m.: foggy; p.m.: little wind 83 degrees, mostly sunny

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Adib Rahounji
BEI: BECON, Rod Padgett, Bill Norton, Tom Rountree, Dick Geer
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Repairing broken seal on slurry pump
- Tested water treatment skid for effectiveness - treated 1400 gallons of turbid pond water
- Continued dumping Building 101 concrete on stabilized cells. Concrete has been spread about 200 feet south of water treatment skid. The concrete has been spread to cell 5 (new cell number), although very little concrete was spread on cell 1

Sampling/Testing Performed

Sampled water treated by water treatment skid

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 11-05-96
ABB-ES
Project No.: 8587.41
Weather: mostly sunny, little wind, 78 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: T. Rountree, Bill Norton, Steve SantaMaria, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- BEI placed two poly tanks near water treatment skid to hold untreated and treated water when the skid is tested for effectiveness. Filled one tank with very turbid water from the pond. The pond water was stirred with a backhoe before being pumped from the pond, to increase its turbidity.
- Stabilized remainder of cell 12 (west end) and stabilized east end of cell 13. Stabilization was stopped due to a broken seal on slurry pump.
- Continued dumping Building 101 concrete on stabilized cells

Sampling/Testing Performed

- Sampled turbid pond water that is to be treated by skid.
- Density measurement for mixed sludge/sediment taken on west end of cell 12, prior to stabilization.
- Density measurement for mixed sludge/sediment/building 101 soil taken in cell 13, prior to stabilization.
- West end of cell 12 and east end of cell 13 sampled for strength. Two locations in each area were sampled; the four samples were composited. The volume of both areas combined did not exceed 500 cubic yards.

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-1, P-2, P-3 (roll 9) Poly tanks placed near water treatment skid, to hold untreated and treated pond water during trial run of skid (N<S) (Camera seemed to malfunction, so these photos may be overexposed)

Comments

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Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 11-04-96	**ON-SITE PERSONNEL**
ABB-ES	ABB-ES: Erin Allen
Project No.: 8587.41	BEI: BECON
Weather: 80 degrees, sunny	NAVY:
	OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- BEI finishing time critical response at helo pad
- Pumped water in Modutanks to FOTW, and refilled tanks with pond water. A total of 388,000 gallons of pond water have been pumped to the FOTW to date.

Sampling/Testing Performed

Sampled pond water pumped into Modutanks

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 10-31-96
ABB-ES
Project No.: 8587.41
Weather:

ON-SITE PERSONNEL
ABB-ES:
BEI
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

No work was performed at PSC 42. BEI was under obligation to conduct a time-critical response, for repair of a damaged helo pad.

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 10-30-96	ON-SITE PERSONNEL
ABB-ES	ABB-ES: None
Project No.: 8587.41	BEI
Weather: 85 degrees, sunny	NAVY:
	OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

BEI continued work at Building 101, so no work was performed at PSC 42

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

Submitted by:
3B Environmental Services, Inc.
Tina Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 10-29-96	**ON-SITE PERSONNEL**
ABB-ES	ABB-ES: Erin Allen, Jayne McIntosh
Project No.: 8587.41	BEI: Rod Padgett
Weather: 84 degrees,	NAVY:
sunny, little wind	OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Regenerated ion beds in water treatment skid
- BEI worked at Building 101, to excavate a sewer line. The excavated concrete and soil were delivered to PSC 42.

Sampling/Testing Performed

eviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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3B Environmental Services, Inc.
Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date:10-28-96
ABB-ES
Project No.: 8587.41
Weather: 84 degrees, partly cloudy

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Fred Bragdon
BEI: Dick Geer, Bill Norton, Rod Padgett, Tom Rountree, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Water in Modutanks pumped to FOTW. Refilled both tanks with pond water.
- Continued dumping Building 101 concrete on stabilized cells. Backfilling with clayey soil, then Timaquana soil
- Compactor delivered to site, to be used for compacting soil over the Building 101 concrete on stabilized cells.
- Delivery of HCl and NaOH for regeneration of ion beds in water treatment skid

Sampling/Testing Performed

Collected sample of pond water pumped into Modutanks

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-14 (roll 8) Building 101 soil spread in cells 13 and 14 prior to stabilization (E<W)

P-15 (roll 8) Spreading Building 101 concrete on stabilized cells 1, 2, 3. Covering with clayey soil, then backfilling with Timaquana soil.

Comments

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ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 10-24-96	**ON-SITE PERSONNEL**
ABB-ES	ABB-ES: Erin Allen
Project No.: 8587.41	BEI: Bill Norton, Dick Geer, Rod Padgett, BECON
Weather:partly	NAVY:
cloudy, 72 degrees	OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Continued spreading of building 101 soils in cells 13, 14
- Surveyors onsite to determine amount of soil in Timaquana pile

Sampling/Testing Performed

Cell 12 sampled for TCLP

Core sample taken from east side of cell 10 (old cell number 6). The sample will be tested for strength, as the sample collected from this portion of cell 10 (stabilized on 9-10-96) failed laboratory strength tests.

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-13 (roll 8) Core drill set up to collect sample from cell 10 (old cell number 6)

Comments

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 10-23-96
ABB-ES
Project No.: 8587.41
Weather: mostly sunny, 82 degrees, light afternoon rain

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Adib Rahounji, Fred Bragdon, Julie Cozzie
BEI: Bill Norton, Rod Padgett, BECON, Dick Geer, Tony Renk
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Stabilized most of cell 12. Mechanical problems with CAT 235 prevented completion of the western edge of cell. (No building 101 soil was added to cell 12).
- Pumped pond water in modular tanks to FOTW, and refilled tanks with pond water.

Sampling/Testing Performed

- Sampled pond water pumped into modular tanks.
- Collected strength samples from cell 12

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Water structures are not placed between cells 12, 13, and 14. Cell sizes, however, will remain approximately 40 ft. x 100 ft. Sampling procedures and frequency remain the same. Stakes and flagging were placed across the west pond leg and the southern boundary of cell 12, as a reference for the CAT operator. There is no change in intent of the workplan.

Photographs/Video Documentation

P-11 (roll 8) South end of west pond leg, dewatered. Building 101 soils have been spread across cells 13, 14. (SE<W)

P-12 (roll 8) Stabilization of cell 12. Note tape stretched across southern boundary of cell as a reference for CAT operator.

Comments

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Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 10-22-96
ABB-ES
Project No.: 8587.41
Weather: sunny, 82 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Fred Bragdon, Adib Rahounji
BEI: Bill Norton, Tony Renk, Steve SantaMaria, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Building 101 soil spread in dewatered area in south end of west pond leg, to be stabilized
- Delivery of cement to tanker, in preparation for stabilization

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 10-21-96
ABB-ES
Project No.: 8587.41
Weather:

ON-SITE PERSONNEL
ABB-ES: Fred Bragdon
BEI: Dick Geer, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Pumped water from modular tanks to FOTW
- Refilled modular tanks with pond water
- Dewatered south end of west leg of pond; discharged water to middle leg
- Started spreading soil from Timuquana over stabilized cells. bldg. 101 concrete and clayey soils on stabilized cells 1, 2, and 3. This will be a partial cover to protect the stabilized cells.

Sampling/Testing Performed

Sampled pond water pumped into modular tanks

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

6-foot water structure installed in middle finger of pond on 10-17-96 failed

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Erin C. Alter
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 10-17-96
ABB-ES
Project No.: 8587.41
Weather: a.m.: light rain; p.m.: cloudy, 81 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Fred Bragdon
BEI: Tom Rountree, Bill Norton, Rod Padgett, Dick Geer, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Pumped pond water in Modutanks to FOTW
- Installed 6-foot water structure in middle leg of pond, as shown on back of page
- Removed 9-foot water structure from pond - structure failed during rainstorms
- Inlet pipe at SE corner of pond leaking again. Clayey soil was packed around length of pipe for temporary barrier. BEI plans to pump more grout into pipe when stabilization resumes.

Sampling/Testing Performed

Performed sludge thickness soundings for remaining cells to be stabilized in western leg of pond.

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-8 (roll 8) Clay soil placed around inlet pipe, as temporary barrier to leakage (W<E)

P-9 (roll 8) Dewatered western leg of pond, following installation of berm extension on west finger. Stabilized cells 1 to 11 now above water level (S<N)

P-10 (roll 8) Stress fracture along west side of berm extension of western finger. Fracture is at level of water prior to dewatering (S<N)

Comments

Submitted by:
ABB Environmental Services, Inc.
Erin C Allen
Field Engineer

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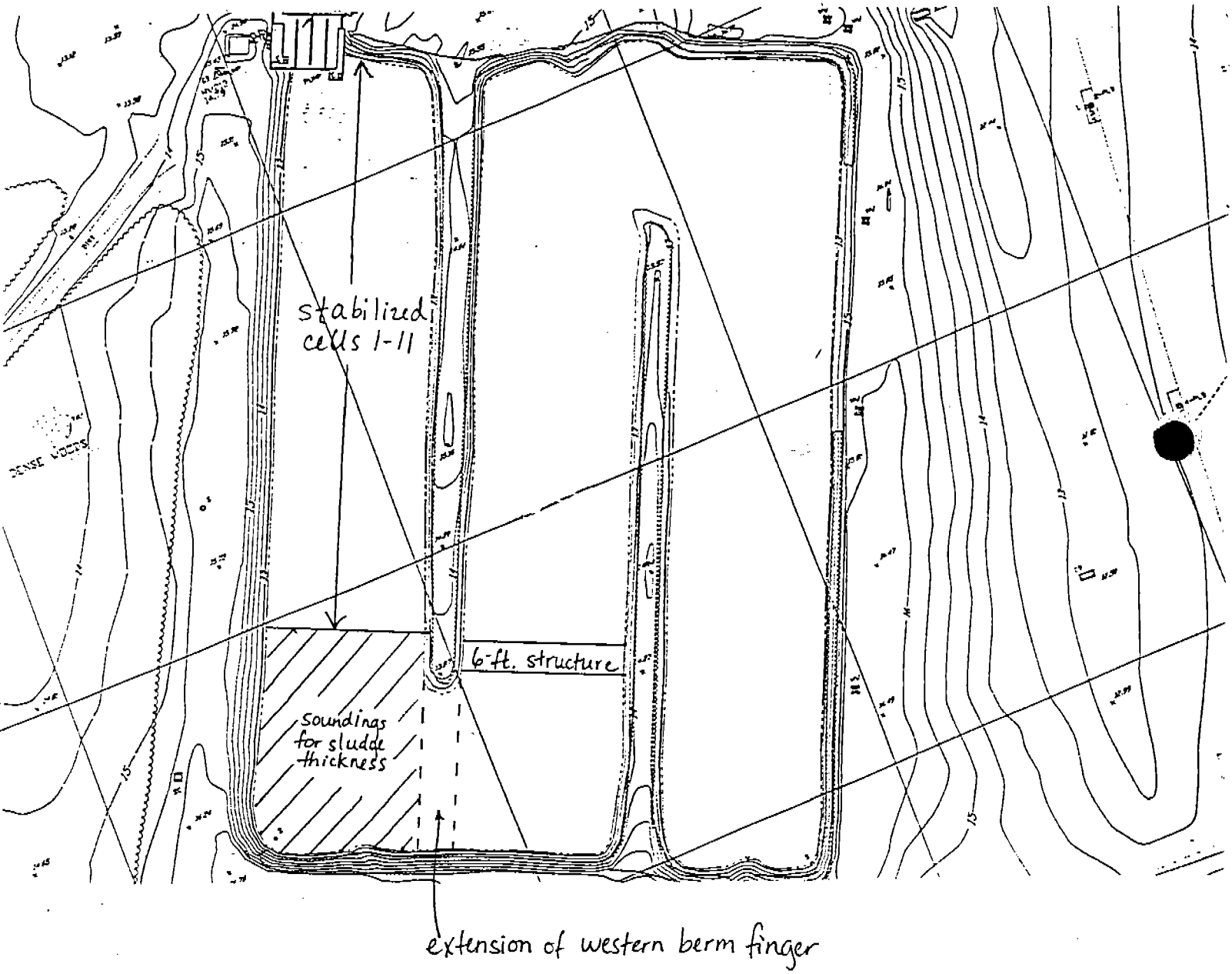
N
stabilized cells I-II
6-ft. structure
Soundings for sludge thickness
extension of western berm finger

ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 10-16-96	**ON-SITE PERSONNEL**
ABB-ES	ABB-ES: Erin Allen
Project No.: 8587.41	BEI: Tom Rountree, BECON
Weather: 80 degrees, cloudy	NAVY:
	OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Pumped pond water from western leg of pond across berm extension to remainder of pond. Stabilized cells 1 to 11 now above water level.

Sampling/Testing Performed

eviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-7 (roll 8) Completed soil extension of western finger (E<W)

Comments

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Field Engineer

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Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 10-15-96	**ON-SITE PERSONNEL**
ABB-ES	ABB-ES: Erin Allen
Project No.: 8587.41	BEI: Tom Rountree, Bill Norton, Rod Pagett, Dick Geer
Weather: cloudy, 80 degrees	NAVY:
	OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Filled both Modutanks with pond water
- Extended western berm finger with clayey soil from the P-3 hangar, segregating western leg of the pond

Sampling/Testing Performed

Sampled the pond water from the Modutanks

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-1 and P-2 (roll 8) Building soil extension on western finger (SE<W)

P-3 (roll 8) Middle leg of pond. Water level remains high after rains. Failed 9-foot water structure in water.

P-4 (roll 8) Circulation of water between modular tanks prior to sampling.

P-5 (roll 8) Access road built for dump trucks to haul clayey soil for extension of berm finger (S<N)

P-6 (roll 8) Extension of western berm finger (SE<NW)

Comments

Submitted by:
BB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 10-14-96
ABB-ES
Project No.: 8587.41
Weather: 76 degrees, mostly cloudy

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Dick Geer, T. Rountree, Bill Norton, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Building an access road at south end of site, for delivery of soil to extend berm finger and for better access by cement delivery trucks
- Water from both modular tanks pumped to FOTW. This is the pond water that was sampled on 10-09.

Sampling/Testing Performed

eviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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BB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 10-10-96	ON-SITE PERSONNEL
ABB-ES	ABB-ES: none
Project No.: 8587.41	BEI
Weather: sunny, 80 degrees	NAVY:
	OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Continued rehabilitating site from rainstorm
- Removed 6-foot water structure from the pond

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Due to the problems which have been encountered with the water structures, BEI wants to extend the two fingers in the pond with soil, creating three separate sections of water. The middle and eastern legs of the pond might then be subdivided with one water structure in the middle. This action would not alter the intent of the stabilization process.

Photographs/Video Documentation

Comments

The decision was made at the weekly QC meeting that the pond water covering stabilized cells 1 to 11 does not need to be sampled. The pond water covered the cells after rainstorms, causing a rise in water level in the pond and failure of a water structure which separated the stabilized cells from the remainder of the pond. Water from the pond is sampled each time the modular tanks are filled.

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ABB Environmental Services, Inc.
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 10-09-96
ABB-ES
Project No.: 8587.41
Weather:Partly sunny, 80 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Tom Rountree, BECON, Bill Norton, Tony Renk (BEI Safety), Steve SantaMaria
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Plumbed up water transfer line, so that transfer pump may be used to circulate water between the modular tanks, for sampling purposes.
- BEI filled both modular tanks with pond water

Sampling/Testing Performed

One water sample was collected from the pond water pumped in to modular tanks.

eviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

At weekly meeting on 10-03-96, BEI asked Jay Caddy from Public Works whether just one pond water sample could be collected from the modular tanks, if water was pumped into one tank and transferred from there into the second tank. PWC accepted the approach of taking only one sample as long as the water is circulated between the tanks. For the sample collected today, the water was circulated using the 4-inch pumps rather than the transfer line since it was not yet ready.

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Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 10-08-96	**ON-SITE PERSONNEL**
ABB-ES	ABB-ES: Erin Allen, Fred Bragdon
Project No.: 8587.41	BEI: T. Rountree, Rod Pagett, Bill Norton, BECON
Weather: cloudy, 77 degrees	NAVY:
	OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

BEI pumped water from both modular tanks to FOTW. The water in the tanks was sampled on 10-03.

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

Pond level has risen from the heavy rains. Much of the site (staging areas, decon. pad, etc.) is still covered by standing water.

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ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 10-07-96	ON-SITE PERSONNEL
ABB-ES	ABB-ES: Erin Allen
Project No.: 8587.41	BEI : Tom Rountree, BEI Safety, Bill Norton
Weather: raining, 78 degrees	NAVY:
	OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

No work performed. Heavy rains during the weekend and the past week have caused the pond water level to rise. Both water structures in the pond rolled - one 6-foot structure and one 9-foot. Stabilized cells 1 to 11 are under water. Much of the staging areas, access roads, decon. pad, etc. are under water.

Sampling/Testing Performed

(See COMMENTS)

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-21 to P-25 (roll 7) Photographs of the site, failed water structures, etc., following several days of heavy rain.

Comments

Note: On Thursday afternoon, 10-03, both modular tanks were pumped full of pond water. Each tank was sampled, with a 5-day turn around time

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Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 10-03-96
ABB-ES
Project No.: 8587.41
Weather: Heavy rain, 83 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Tom Rountree, Rod Padgett, BECON
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Continued fabricating 9-foot water structure
- Removed 6-foot water structure from pond (structure rolled during week of 9-23)
- Pumped remaining water in first modular tank to FOTW

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 10-02-96	ON-SITE PERSONNEL
ABB-ES	ABB-ES: Erin Allen
Project No.: 8587.41	BEI: BECON, Tom Rountree, Rod Padgett
Weather: rainy, 85 degrees	NAVY:
	OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Continued fabrication of 9-foot water structure
- Worked on water treatment skid; treated water for about 1 hour, difficulty maintaining good conductivity values
- BEI received analyticals on pond water in modular tank 1; passed all NPDES discharge requirements prior to treatment

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 10-01-96
ABB-ES
Project No.: 8587.41
Weather: cloudy, 86 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: BECON, Bill Norton, Tom Rountree, Rod Padgett
NAVY:
OTHER: Electrician

Work Performed / Corresponding Sections of BEI Work Plan

- Continued refabrication of 9-foot water structure
- Fastened top brace on second modular tank, completing assembly of the tank
- Tested water treatment skid. Ran skid at approximately 45 gpm, 45 psi. Treated over 500 gallons of water.

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 9-30-96
ABB-ES
Project No.: 8587.41
Weather: a.m.: light rain; p.m.: 85 degrees, cloudy

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Fred Bragdon
BEI: BECON, Tom Rountree, Bill Norton, Rod Padgett, Eddie Najmola, Dick Gere
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Continued refabrication of 9-foot water structure
- Pumped first modular tank approximately 2/3 full of pond water, to reduce level of water in pond
- Drained 6-foot water structure in center of middle leg of pond, which rolled last week

Sampling/Testing Performed

Sampled pond water in first modular tank for NPDES discharge parameters

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

A total of 9400 gallons of water were transferred from the first modular tank to the FOTW on 9-26

bmitted by:
BB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 9-26-96	**ON-SITE PERSONNEL**
ABB-ES	ABB-ES: Erin Allen
Project No.: 8587.41	BEI: Tom Rountree, Bill Norton, Rod Padgett, BECON
Weather: pt. sunny, 87 degrees	NAVY:
	OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Refabricated 9-foot water structure removed from pond on 9-25
- Completed water transfer line from modular tank to FOTW. Primed transfer pump and pumped water from first modular tank to the FOTW, at rate of 138 gpm. No leaks along conveyance piping.
- 6-foot water structure in center of middle leg of pond rolled toward south

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-19 (roll 7) Transfer pump and flowmeter on transfer line from modular tank to FOTW

P-20 (roll 7) Discharge of water from modular tank to FOTW

Comments

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ABB Environmental Services, Inc.
Erin Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 9-25-96	ON-SITE PERSONNEL
ABB-ES	ABB-ES: Erin Allen, F. Bragdon
Project No.: 8587.41	BEI: BECON, Bill Norton, Tom Rountree, Frank Cater
Weather: sunny, 88 degrees	NAVY:
	OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Hooked up flowmeter to transfer line from modular tank to PWC
- 9-foot water structure at south end of middle leg of pond was drained and removed from pond. Because one of the inner tubes failed, the structure must be restructured and re-installed.
- Routine maintenanceand servicing of equipment

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 9-24-96	**ON-SITE PERSONNEL**
ABB-ES	ABB-ES: Erin Allen
Project No.: 8587.41	BEI: BECON, Bill Norton, Rod Padgett, Tom Rountree
Weather: sunny, 87 degrees	NAVY:
	OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Installation of 6-foot water structure in middle of center leg of pond
- Delivery of 200 tons of rock to build up area near stabilization unit which gets muddy due to rain

Sampling/Testing Performed

TCLP sampling of west end of cells 6/7

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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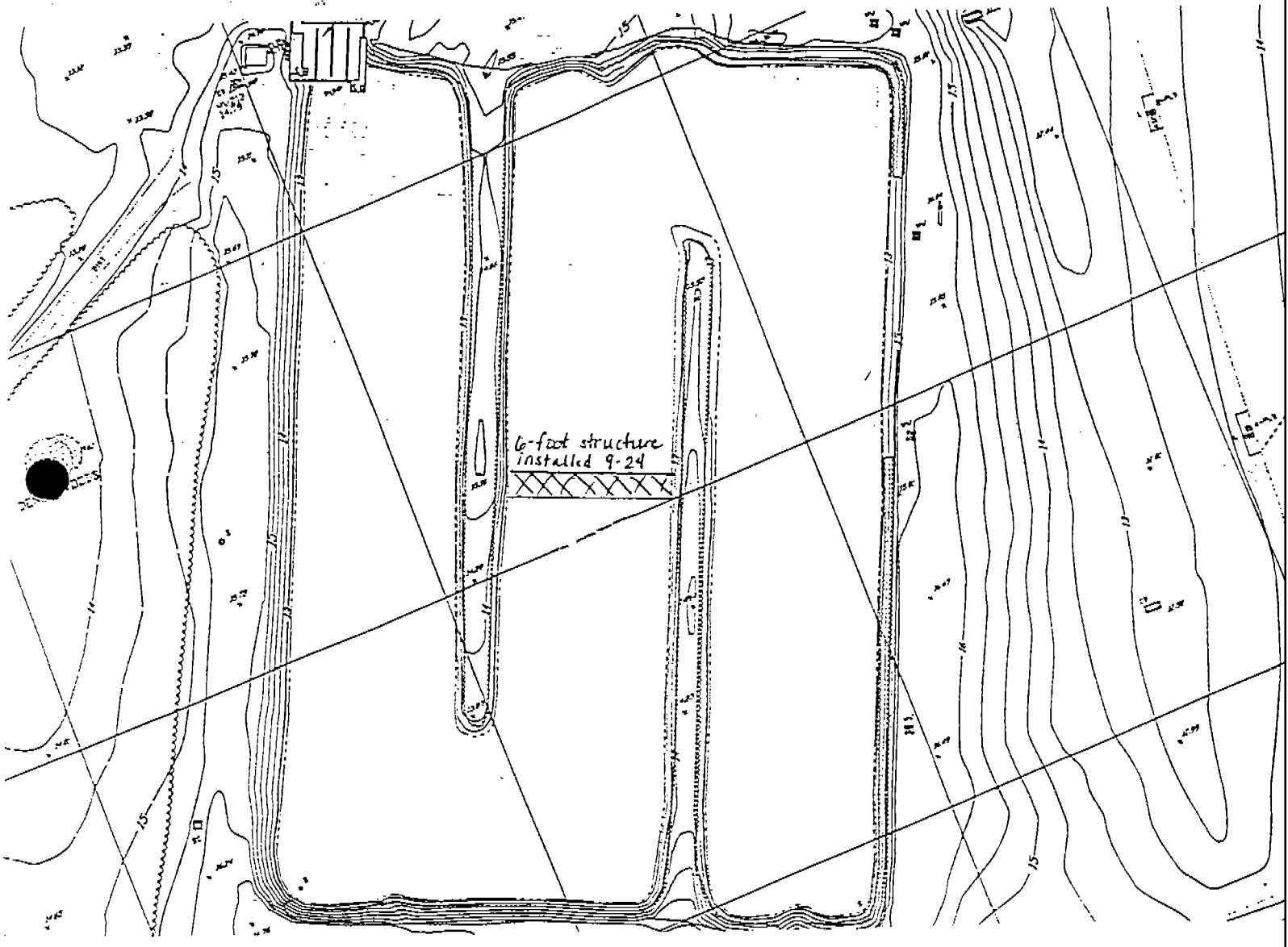

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 9-23-96	**ON-SITE PERSONNEL**
ABB-ES	ABB-ES: Erin Allen
Project No.: 8587.41	BEI: BECON, Tom Rountree, Bill Norton
Weather: sunny, 89 degrees	NAVY:
	OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Fabricated 6-foot water structure
- Welded cracked injector tine

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 9-19-96
ABB-ES
Project No.: 8587.41
Weather: partly cloudy, 82 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Don Haumann, Kurt Sichelstiel
BEI: BECON, Tom Rountree, Bill Norton
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Continued to address health and safety issues on site
- Re-secured cover on Building 101 concrete and soil
- Delivery of new bladders for 6-foot water structures

Sampling/Testing Performed

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

The western end of cells 6/7 has not yet been sampled for TCLP, although the area was stabilized on 9-16. The surface of the area is still very soft, and the pocket penetrometer tests of the samples collected for strength indicate that the cell area may not pass strength requirements. BEI will wait for results of 7-day or 14-day strength tests. If the cell 6/7 area does not pass strength requirements, BEI will not sample for TCLP, since the area will need to be reworked.

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ABB Environmental Services, Inc.
Erin C Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 9-18-96
ABB-ES
Project No.: 8587.41
Weather: sunny, 88 degrees, little wind

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Fred Bragdon
BEI: BECON, Tom Rountree, Bill Norton, Eddie Najmola, Doug Hartman
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Addressed site health and safety issues
- Completed installation of 9-foot water structure at north end of middle leg of pond
- Continues backfilling clayey soil over cells 1 to 4

Sampling/Testing Performed

eviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

Comments

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3B Environmental Services, Inc.
Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 9-17-96
ABB-ES
Project No.: 8587.41
Weather: am: partly cloudy, 89 degrees; pm: light rain

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: BECON, Tom Rountree, Bill Norton
NAVY:
OTHER: Electricians

Work Performed / Corresponding Sections of BEI Work Plan

- Reconstructed 9-foot water structure removed from cell 4A
- Added acid to water in modular tank to lower pH. The pH was previously tested at 9.6, and PWC discharge requirement for pH is 9.5.

Sampling/Testing Performed

- Sampled cell 4A for TCLP
- Sampled pH of water in first modular tank. Water has passed all other discharge criteria.

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-14 (roll 7) BECON rolling up 9-foot water structure

P-15 and P-16 (roll 7) BEI washing off baby softshell turtle that was covered with stabilized material, and releasing it to SE corner of pond

Comments

BEI attempted to sample the western portion of cells 6/7 by hand augering, but recovery was poor. Could not get split spoon assembly toegether, so BEI plans to sample this area on 9-18. BEI plans to take one TCLP sample, composited over the western portion of the two cells, stabilized 9-16, as the volume of the area does not exceed 500 cubic yards-the maximum volume per sample according to the BEI workplan.

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ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 9-16-96
ABB-ES
Project No.: 8587.41
Weather: a.m.: sunny, 88 degrees; p.m.: light rain

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Tom Rountree, Bill Norton, Rod Padgett, BECON, QC manager
NAVY: L. Blackburn
OTHER: Electricians

Work Performed / Corresponding Sections of BEI Work Plan

- Continued spreading of clayey soil over Building 101 material on stabilized cells 1 to 4.
- Western edge of cells 6/7 stabilized
- Electricians on-site to hook up transfer pump for water treatment
- Stabilization of cell 4A

Sampling/Testing Performed

- Soundings for sludge thickness performed in cell 4A
- Strength samples collected from cell 4A and stabilized portions of cells 6 and 7

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-13 (roll 7) Foreground: stabilization of cell 4A. Background: spreading clayey soil over Building 101 material on stabilized cells 1 to 4

Comments

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Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 9-12-96
ABB-ES
Project No.: 8587.41
Weather: sunny, 88 degrees, humid

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Lissa Miller
BEI: Tom Rountree, BECON, Bill Norton, Rod Padgett
NAVY: Diane Lancaster, Dana Gaskins
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Spreading P-3 hangar clayey soil over the Building 101 concrete and debris in stabilized cells
- Continued work on water transfer line (conveyance pipe) to water treatment skid
- Delivery of cement to tanker

Sampling/Testing Performed

- Surface of cell 5 sampled to depth of 1 foot
- TCLP sampling for cells 6 and 7

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-11 (roll 7) Loaders spreading clayey soil from P-3 hangar over Building 101 concrete and debris on stabilized cells 1 to 4 (SE<N)

Comments

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ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 9-11-96
ABB-ES
Project No.: 8587.41
Weather:a.m.: cloudy, humid, 88 degrees; p.m.: light rain

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Bill Norton, Hermann Bauer, Rod Padgett, Tom Rountree, BECON
NAVY: None
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Continued stabilization of cells 6/7. Stabilization unit ran out of cement, delaying completion of the cells
- Continued dumping and spreading of Building 101 concrete and debris over stabilized cells 1 to 4
- Water structure in cell 4A drained and removed from pond, in preparation for stabilization

Sampling/Testing Performed

Strength samples collected from portion of cell 6 stabilized today; strength samples collected and composited from portions of cell 7 stabilized today and on 9-10-96

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

None

Comments

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ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 9-10-96
ABB-ES
Project No.: 8587.41
Weather: humid, cloudy, 90 degrees; afternoon: rain

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Srin Kuchibotla
BEI: BECON, Tom Rountree, Bill Norton, Rod Padgett, Frank Cater
NAVY: Henry-FED
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Stabilized eastern half of cells 6 and 7
- Spread Building 101 concrete and the P-3 hangar clayey soil (used as a liner for the stockpiled concrete) over stabilized cells

Sampling/Testing Performed

Strength samples taken from stabilized portion of cell 6

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-8 (roll 7) Loaders pushing Building 101 concrete onto stabilized cell 1, (SW<NE)

P-9 (roll 7) Stabilization of cells 6/7, (NE<S)

P-10 (roll 7) Spreading of Building 101 concrete and P-3 hangar clayey soil over stabilized cells 1, 1A, 2

Comments

Continued problems with stabilization unit slowed stabilization

Submitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 9-9-96
ABB-ES
Project No.: 8587.41
Weather: a.m: sunny, 93 degrees; p.m.: rain, lightening

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Bill Norton, Tom Rountree, Rod Padgett, BECON
NAVY:
OTHER: Electrical contractors

Work Performed / Corresponding Sections of BEI Work Plan

- Started dumping Building 101 concrete on previously stabilized cells
- Added lifts to berm extension at NW corner of pond.
- Worked on stabilization unit and CAT 235

Sampling/Testing Performed

Compaction testing done on lifts added to berm extension, as well as lift 2, which failed compaction testing prior to delay of work in June

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

None

Photographs/Video Documentation

None

Comments

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Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 9-5-96	**ON-SITE PERSONNEL**
ABB-ES	ABB-ES: Erin Allen, Fred Bragdon, Adib Rahounji
Project No.: 8587.41	BEI: BECON, Bill Norton, Trent Rogers, Rod Padgett, Bechtel personnel from Cecil Field
Weather: cloudy, humid, 90 degrees	NAVY:
	OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Building 101 soil spread in cell 6/7. Tines of stabilization injectors inserted vertically into Building 101 soil and sediment in 5 locations to probe thickness of the mixed material.
- Sample of mixed sludge/sediment/Building 101 soil collected to determine density
- Pond water and cement slurry run through injectors. Problems with stabilization unit and hydraulics on CAT 235 postponed stabilization of cells 6/7
- Soil added to incomplete portion of dike near chlorine contact chamber. Three lifts were placed prior to delay of work in June. The first lift passed and other two failed. E. Allen reminded BEI that if they add lifts and any of the prior lifts still fail, the portion of the dike will have to be redone.

Sampling/Testing Performed

Soundings of Building 101 soil/sludge thickness in cells 6/7

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-7 (roll 7) CAT spreading Building 101 soil in cell 6, prior to stabilization. (W<E)

Comments

Approximately 440 cubic yards of Building 101 soil were added to cells 6/7

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ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 9-04-96
ABB-ES
Project No.: 8587.41
Weather: pt. sunny, 90 degrees, hurricane watch, humid

ON-SITE PERSONNEL
ABB-ES: E. Allen
BEI: BECON, Eddie Najmola, Rod Padgett, Trent
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

Preparation of site for base-issued Class II hurricane watch

Sampling/Testing Performed

None

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

None

Photographs/Video Documentation

None

Comments

ıbmitted by:
ABB Environmental Services, Inc.
Field Engineer

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ABB Environmental Services, Inc.
1536 Kingsley Avenue, Suite 127
Orange Park, FL 32073

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 9-3-96
ABB-ES
Project No.: 8587.41
Weather: pt. sunny, 90 degrees, hurricane warning

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: BECON, Rod Padgett, Trent, Bill Norton
NAVY:
OTHER: surveyors, JAX fire dept.

Work Performed / Corresponding Sections of BEI Work Plan

- Dewatered cell 6/7
- Surveyed stockpiled soil from Building 101, to determine volume
- Welded cracked injector tine on stabilization equipment
- Began addition of Building 101 soil to dewatered cell 6/7
- Tied down light equipment and supplies on site for a base-issued hurricane warning

Sampling/Testing Performed

Soundings performed in cell 6/7 to determine thickness of sludge. Fifteen soundings were done. Thickest sludge was 2.2 feet.

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Photographs/Video Documentation

P-5 (roll 7) Cell 6/7 area, dewatered; south of exposed cell 5, which was previously stabilized. (SW<NE)

P-6 (roll 7) Addition of Building 101 soil to dewatered cell 6/7 area. (S<N)

Comments

Rod Padgett raised question regarding soundings procedure for sludge thickness. He suggested the possibility of doing soundings across remainder of pond at once, rather than cell-by-cell. E. Allen suggested sludge thickness may vary slightly once water structures are in place. May ask Jane Mears for her opinion at next QC meeting.

Submitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 8-29-96
ABB-ES
Project No.: 8587.41
Weather: cloudy, 90 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: BECON, Rod Padgett
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Water pumped from cell 6/stabilized cell 5 area
- Eastern finger of land shaped to give sides a slope angle which will allow easier access to cells

Sampling/Testing Performed

None

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

None

Photographs/Video Documentation

None

Comments

Cell 6, the area directly south of stabilized cell 5, may actually be denoted as cells 6 and 7, although there is not a water structure separating them. The area is approximately 75 feet wide, so it would be divided into two 'cells' for continuity of sampling procedures and cell size.

Submitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 8-28-96
ABB-ES
Project No.: 8587.41
Weather: 92 degrees, pt. sunny, humid

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Trent, BECON, Tom Rountree
NAVY:
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Installation of 6-foot bladder
- Installation of liner in second modular tank completed
- Asphalt placed over cut in road made to bury conveyance pipe to FOTW
- Western finger of land graded to reduce slope on sides, for easier access to cells

Sampling/Testing Performed

None

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

None

Photographs/Video Documentation

None

Comments

Water in first modular tank, from rain and regenerating ion beds in treatment skid, was sampled by T. Rountree and Trent on Tues., 8-27

Submitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 8-27-96
ABB-ES
Project No.: 8587.41
Weather: sunny, 90 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: BECON, Rod Padgett, Bill Norton, Tom Rountree
NAVY:
OTHER: Electrical contractor

Work Performed / Corresponding Sections of BEI Work Plan

- Delivery of cement to fill storage tanker and hopper on stabilization unit.
- Geofabric lining and plastic lining installed in second modular tank; plastic lining not yet secured.
- 6-foot water structure rolled up and prepared to be installed approximately 70 feet south of the southern edge of stabilized cell 5. The water in cell 6 and the water on the surface of cell 5 will be pumped off prior to stabilization of cell 6.
- A hose was hooked up to the tee-off from the base water supply, to be used for clean-up around the stabilization unit.

Sampling/Testing Performed

None

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

None

Photographs/Video Documentation

P-4 (roll 7) Wooden braces built to keep slurry line and hose from pond out of the mud near stabilization unit

Comments

9-foot water structure installed at southern end of middle leg of pond was fabricated with two outer geofabric casings and three side-by-side inner plastic bladders

Submitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 8-26-96
ABB-ES
Project No.: 8587.41
Weather: humid, 90 degrees, light afternoon rain

ON-SITE PERSONNEL
ABB-ES: Erin Allen, Fred Bragdon
BEI: Tom Rountree, Rod Padgett, BECON
NAVY: none
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Finished filling 9-foot bladder installed on 8-22, with pond water.
- Fabrication of 6-foot bladder to be installed south of cell 5, which was stabilized in June and is presently covered by pond water
- Delivery of PVC pipe to connect conveyance line to treatment skid

Sampling/Testing Performed

None

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

None

Photographs/Video Documentation

P-3 (roll 7) Foreground: 9-foot water structure installed at s. end of middle leg of pond. Background: Material brought to site from excavation at Building 101, covered with plastic to minimize blowing. Material includes concrete, rebar, and soil. (S<N)

Comments

Chlorine contact chamber has beed drained for some work inside the chamber. F. Bragdon suggested to BEI that it might be an ideal time to excavate and rework the portion of the dike around the contact chamber, because when it is full, water flows from the chamber through the sleuce gate.

Submitted by:
ABB-Environmental Services, Inc.
Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 8-22-96
ABB-ES
Project No.: 8587.41
Weather:sunny, humid, 90 degrees

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Bill Norton, Rod Padgett, BECON
NAVY: None
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Pressure test completed for PVC conveyance pipe from water treatment skid to FOTW
- 9-foot water structure installed at southern end of middle leg in pond

Sampling/Testing Performed

None

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

Conveyance piping to FOTW pressure tested at 39-42 psi for about 7 hours, rather than at 50 psi for 2 hours, as stated in the BEI Work Plan. This modification does not affect RCRA closure. Rod Padgett said he will prepare a memo for weekly meeting on 8-29, summarizing the pressure and time actually used for pressure testing of the line.

Photographs/Video Documentation

P-2 (roll 7) Tanker brought on-site to hold an additional 100 tons of dry cement, for stabilization. (NW<S)

Comments

- There is standing pond water on top of stabilized cell 5, as bladder separating it from the rest of pond burst during delay in PSC 42 activities. The cell will be sampled from the surface, to a depth of 1 foot, to insure that it is not contaminated.
- Concrete from Building 101 is currently stockpiled on-site. The material underwent gross decontamination before transfer to PSC 42. The concrete will be place on top of stabilized cells. Soil from Timuquana Country Club will be used to fill around the concrete.

Submitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 8-21-96	**ON-SITE PERSONNEL**
ABB-ES	ABB-ES: Erin Allen, Don Haumann
Project No.: 8587.41	BEI: Bill Norton, Tom Rountree, Rod Padgett, BECON
Weather: 88 degrees, sunny, breezy	NAVY: None
	OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Putting together water structures. Some of the water structures being fabricated have been redesigned by the manufacturer, with two outer geofabric casing, a band along the bottom seam, three inner bladders on the nine-foot structures, and fabric bands around the circumference of the six-foot structures. The redesign is intended to prevent the bladders from slipping or rolling.
- Second modular tank is complete, except for liner
- The 3-inch PVC conveyance pipe from the treatment skid to FOTW was filled with water, in preparation for pressure testing

Sampling/Testing Performed

none

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

- Buried portions of conveyance pipe from treatment skid to FOTW were buried to depth of 12 inches, rather than 18 inches, as stated in Bechtel Work Plan. This modification is not pertinent to RCRA closure of the site.

Photographs/Video Documentation

none

Comments

- Tom Rountree located analysis done on P-3 hangar soils used for dike - soils were analyzed for RCRA metals only
- 3" PVC conveyance pipe from treatment skid to FOTW is about 2200 feet long
- Tom Rountree said he will have analytical data requested by ABB w/e 8-16-96 for the weekly meeting on 8-22-96

Submitted by:
BB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 8/20/96
ABB-ES
Project No.: 8587.41
Weather: 92 degrees, breezy, pt. cloudy

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Tom Rountree
NAVY: Bill Raspet
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Bechtel continuing to put in conveyance piping from treatment skid to Public Works
- Bechtel continuing to fabricate water structures

Sampling/Testing Performed

None

eviations from Work Plan / Reason for Deviation and Documentation of Approval

None

Photographs/Video Documentation

None

Comments

Submitted by:
BB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

Date: 8/19/96
ABB-ES
Project No.: 8587.41
Weather: humid, 90 degrees, breezy, pt. cloudy

ON-SITE PERSONNEL
ABB-ES: Erin Allen
BEI: Tom Rountree, Steve SantaMaria, BECON
NAVY: None
OTHER:

Work Performed / Corresponding Sections of BEI Work Plan

- Fabrication of second modular tank
- Installation of 3" PVC pipe from treatment skid to base Public Works. The pipe will be above ground, except where it crosses roads, and at the treatment plant, where workers drive and park cars. In those places, pipe will be buried to 1 foot bls.

Sampling/Testing Performed

None

Deviations from Work Plan / Reason for Deviation and Documentation of Approval

None

Photographs/Video Documentation

P-1 (roll 7) Conveyance piping from treatment skid to PWC, buried to 1 foot bls. at treatment plant (W<E)

Comments

After June 13, Bechtel delayed work at PSC 42 to respond to a time-critical soil removal at Building 101, in the NADEP area of NAS JAX. They resumed work at PSC 42 on Monday, August 12. During the interim, a few activities continued at PSC 42, including the following:

- Roll-off's C25170D and C25198D were removed from site. E. Allen called Jane Mears on 8-19-96 to request the manifests for that waste.
- The treatment skid was set up at the south end of the site; has not yet been tested
- A tanker truck was brought on-site, for storage of 100 tons of dry cement, in addition to the 30-ton capacity of the hopper on the stabilization unit. The extra cement storage will allow for more continuous stabilization

Submitted by:
ABB Environmental Services, Inc.
Erin C. Allen
Field Engineer

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DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

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ABB Representatives: (on-site)	Date:
Erin Allen	6-13-96, Thursday
Bechtel Superintendent: (on-site)	**U.S. Navy Representatives: (on-site)**
Bill Norton, Hermann Bauer, Steve Santa Maria, Mike Omelko	Larry Blackburn

1. New Site Activities	Corresponding Sections of Work Plan
1. Stabilization of cell 5 completed. (western edge) 2. Strength sample collected from cell 5, TCLP also collected 3. Compaction test performed on first 3 lifts of dike continuation around chlorine contact chamber. 2nd lift failed compaction, likely due to wetness. Will be retested 6-17-96	

2. Ongoing Site Activities	Corresponding Sections of Work Plan
1. Rainwater pumped off stabilized cells	

3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval
none noted.	

4. Photographs/Video Documentation	Additional Issues
none	BEI asked E. Allen on 6-12-96 whether they could discontinue soundings in stabilized material, and use tick marks on injector tines as only means of visual verification for stabilization depth. E. Allen and BEI feel tick marks are more accurate, as sounding rod may hit sticks, clumps of residual, soil, etc. and there may be hearing cards at base of cells. E. Allen discussed the matter with Jane Mears to get regulatory perspective. Jane agrees that visual inspection using injector tines, is sufficien Continuing to perform both methods may create unnecessary

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

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ABB Representatives: (on-site)	Date:
Erin Allen	6-12-96, Wednesday
Bechtel Superintendent: (on-site)	**U.S. Navy Representatives: (on-site)**
Bill Norton, Steve Santa Maria, Herman Bauer, Mike Omelko, Tom Rountree	Diane Lancaster, with other Navy personnel and employees of City of Jacksonville

1. New Site Activities	Corresponding Sections of Work Plan
1. Stabilization of cell 5 - stabilization unit ran out of cement, so small portion on west side of cell will be stabilized Thurs. 6-13-96. Soundings performed to verify stabilization depth. 2. Collected rain water pumped off stabilized cells 1 to 4. 3. Hose to one injector tine blew off when water was pumped through slurry line, due to clogged tine. Fixed by BEI.	

2. Ongoing Site Activities	Corresponding Sections of Work Plan
1. A second roll-off has been delivered to the site - C2519&D 2. Cell 5 dewatered, following rain that added water back to cell on Tues. afternoon 3. BEI surveyed elevations of stabilized material in cells 1, 2, 3, 4, 1A, 2A, 3A	

3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval
none noted	

4. Photographs/Video Documentation	Additional Issues
P-14 (roll 6) BEI preparing to pump rain water off stabilized cells 1 to 4	Depth soundings in cell 5 were conducted during week of 6-3-96. Thickest sludge in cell 5 was 1.3 foot.

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

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ABB Representatives: (on-site)	Date:
E. Allen	6-11-96, Tuesday
Bechtel Superintendent: (on-site)	**U.S. Navy Representatives: (on-site)**
Bill Norton	none

1. New Site Activities	Corresponding Sections of Work Plan
1. 3-Foot bladder installed adjacent to bladder 6 (a 6-foot bladder) on its southern side, for more stability 2. Cell 5 dewatered. (Rain in late afternoon added water back to cell 5).	

2. Ongoing Site Activities	Corresponding Sections of Work Plan

3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval
none noted.	

4. Photographs/Video Documentation	Additional Issues
none	Site muddy, due to rain over the weekend; standing water on cells previously stabilized.

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

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ABB Representatives: (on-site)	Date:
FRED Bragdon Don Haumann	6-10-96, Monday
Bechtel Superintendent: (on-site)	**U.S. Navy Representatives: (on-site)**
Bill Norton	Diane Lancaster (FED)

1. New Site Activities	Corresponding Sections of Work Plan
1. Sampling for TCLP analysis in cell 3A, stabilized 6-6-96. Samples collected by hand auger. 3 samples collected, and composited. 2. BEI sampled Timaguana soil - preferred backfill material. 4 composites (3 grab samples each) were collected. Samples will be analyzed for VOC, SVOC, and metals. 3. Sampling of PSC41 stabilized material. 4. First lift of soil placed for completion of dike around chlorine contact chamber	

2. Ongoing Site Activities	Corresponding Sections of Work Plan
1. Installing, fabricating water structures	

3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval
none noted.	

4. Photographs/Video Documentation	Additional Issues
	Chosen sampling technique for Timaguana soils was per discussion and agreement between D. Haumann, Diane Lancaster and Bill Norton. E. Allen spoke with FDEP regulator on 6-7-96 and confirmed no regulatory guideline for sampling soil piles. (See ABB Rep. present for sampling)

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

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ABB Representatives: (on-site)	Date:
Erin Allen Fred Bragdon	6-6-96, Thursday
Bechtel Superintendent: (on-site)	**U.S. Navy Representatives: (on-site)**
Bill Norton Steve SantaMaria	none
1. New Site Activities	**Corresponding Sections of Work Plan**
1. Stabilization of cell 3A; collection of strength sample 2. Bladder 5, installed adjacent to bladder with geofabric failure, rolled northward will be pulled out and re-installed. 3. Mixed grout/soil placed over concrete pipe to chlorine contact chamber	WP 3.3.4 and Summary of Sludge/Sediment Sampling Plan.
2. Ongoing Site Activities	**Corresponding Sections of Work Plan**
3. Deviations from Work Plan	**Reason for Deviation/Documentation of Approval**
none noted.	
4. Photographs/Video Documentation	**Additional Issues**
P-13 (roll 6) Stabilization of cell 3A (E&W)	

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

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ABB Representatives: (on-site)	Date:
Erin Allen	6-5-96, Wednesday
Bechtel Superintendent: (on-site)	**U.S. Navy Representatives: (on-site)**
Bill Norton Eddie Najmola Mike Omelko	none

1. New Site Activities	Corresponding Sections of Work Plan
1. Geotextile outer tube on bladder 5 split. Another bladder installed, adjacent to bladder 5 to the south. The split bladder will be removed, prior to stabilization of cell 5. 2. Cells 3A and 5 dewatered. 3. Installation of 4-inch water line, from tee off of base water line to stabilization unit. Placed underground. Will provide back-up water to stabilization unit in case a pump from pond water fails. Will also provide decon. water at stabilization unit.	

2. Ongoing Site Activities	Corresponding Sections of Work Plan
1. Tine on injector welded to repair a crack at base. This is same tine that has been welded previously. Tine is slightly displaced.	

3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval
none noted.	

4. Photographs/Video Documentation	Additional Issues
P-9 (roll6) Cell 3A, prior to dewatering or stabilization P-10 (roll6) Cells 3 and 2A, after stabilization and sampling P-11 (roll6) Bladder 5, after geofabric split. P-12 (roll6) Installation of water line to stabilization unit	

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

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ABB Representatives: (on-site)	Date:
Don Haumann	6-4-96, Tuesday
Bechtel Superintendent: (on-site)	**U.S. Navy Representatives: (on-site)**
Bill Norton Steve SantaMaria	none
1. New Site Activities	**Corresponding Sections of Work Plan**
1. Depth soundings performed in cells 3A and 5 to determine thickness of sludge.	
2. Ongoing Site Activities	**Corresponding Sections of Work Plan**
1. Continue moving water structures to establish next series of cells for stabilization	Appendix E and WP sec. 3.3.1
3. Deviations from Work Plan	**Reason for Deviation/Documentation of Approval**
none noted	
4. Photographs/Video Documentation	**Additional Issues**
none	Bechtel plans to sample material at PSC41 tomorrow. This material will be broken up and placed on stabilized material at PSC42 prior to backfilling

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

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ABB Representatives: (on-site)	Date:
Erin Allen Fred Bragdon	6-3-96, Monday
Bechtel Superintendent: (on-site)	**U.S. Navy Representatives (on-site)**
Bill Norton Tom Rountree	None
1. New Site Activities	**Corresponding Sections of Work Plan**
1. Sampling of stabilized material in cells 4 and 2A. (ABB was not present) Samples collected by hand auger, for TCLP analysis.	5.2.4 and Summary of Sludge/Sediment Sampling Plan.
2. Contractor for PWC sampled roll-off C25170D.	4.0
3. Draining water structures and re-installing them to create another series of consecutive cells for stabilization.	Appendix G
2. Ongoing Site Activities	**Corresponding Sections of Work Plan**
3. Deviations from Work Plan	**Reason for Deviation/Documentation of Approval**
none	
4. Photographs/Video Documentation	**Additional Issues**
none	

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

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ABB Representatives: (on-site)	Date:
Erin Allen Brian Johnson	5-30-96, Thursday
Bechtel Superintendent: (on-site)	**U.S. Navy Representatives: (on-site)**
Bill Norton Eddie Najmola Tom Rountree Hermann Bauer	Diane Lancaster Bill Daugherty

1. New Site Activities	Corresponding Sections of Work Plan
1. Performance of sludge depth soundings in cell 4. (Top Elevation of sludge not surveyed)	
2. Bladder 2 drained and removed	WP 3.3.1
3. TCLP samples collected from cell 3. Number of samples taken reduced to 3, which is sufficient	WP 5.2.4 and Summary of Sludge/Sediment Sampling Plan
4. Cells 4 and 2A stabilized. (E. Allen + B. Johnson do not believe sludge depth soundings were done for cell 2A.)	WP 3.3.4
5. Strength samples collected from cells 4 and 2A. BEI attempted to collect TCLP sample from cell 4, but no recovery. Both cells will be sampled Monday, June 3.	WP 5.2.4 and Summary of Sludge/Sediment Sampling Plan

2. Ongoing Site Activities	Corresponding Sections of Work Plan

3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval
none noted.	

4. Photographs/Video Documentation	Additional Issues
P-6 (roll 6) Collection of sample 3, cell 3. P-7 (roll 6) Composite of samples 1, 2, 3 in cell 3. P-8 (roll 6) Stabilization of cell 2A.	Strength samples collected from cell 3 on 5-29-96 sitting on decon. pad, not labeled, not protected. Concrete pipe leading to chlorine contact chamber has not yet been grouted.

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

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ABB Representatives: (on-site)	Date:
Erin Allen Adib Rahaunji Brian Johnson Fred Bragdon	5-29-96, Wednesday
Bechtel Superintendent: (on-site)	**U.S. Navy Representatives: (on-site)**
Bill Norton Frank Cater Tom Rountree	none

1. New Site Activities	Corresponding Sections of Work Plan
1. Maintenance on alternator for stabilization unit generator	
2. Cell 4 dewatered	WP 3.3.2
3. Frank Cater, Brian Johnson, Bill Norton discussed ABB's comments on the treatability study done by ENRECO. ABB feels report was missing some pertinent data. Brian Johnson also expressed concern about integrity of rip-rap spillway	WP 3.1 WP 3.6.1

2. Ongoing Site Activities	Corresponding Sections of Work Plan
1. Completion of Cell 3 stabilization.	
2. Soundings performed in cell 3 to verify depth of stabilization	
3. Strength samples collected from cell 3. Becon workers ~~backhoe~~ initially scooped stabilized material with their hands while performing depth soundings, to fill molds for strength samples. E. Allen informed them this was not acceptable, and asked them to collect 3 backhoe samples and composite them. BEI concurred and re-collected sample	

3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval
None noted.	

4. Photographs/Video Documentation	Additional Issues
P-5 (roll 6) Cell 4, dewatered.	Arsenic, rather than silver, values reported on TCLP analysis for cell 1 — caused by mis-type on list of parameters to be reported. This was noted by Bechtel, and lab is sending silver values.

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

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ABB Representatives: (on-site)	Date:
Erin Allen Brian Johnson Fred Bragdon Don Haumann	5-28-96, Tuesday
Bechtel Superintendent: (on-site)	**U.S. Navy Representatives: (on-site)**
Tom Rountree Bill Norton	Larry Blackburn
1. New Site Activities	**Corresponding Sections of Work Plan**
1. Cell 3 dewatered. Soundings performed to determine sludge thickness. Elevation of sludge in cell 3 not surveyed. 2. Cell 3 partially stabilized. Sludge/sediment from above concrete pipe to chlorine contact chamber was incorporated. Stabilization of cell 3 not completed due to thunderstorms and lightning in afternoon.	WP 3.3.2 WP 3.3.4
2. Ongoing Site Activities	**Corresponding Sections of Work Plan**
3. Deviations from Work Plan	**Reason for Deviation/Documentation of Approval**
None noted.	
4. Photographs/Video Documentation	**Additional Issues**
P-3 (roll 6) Cell 3, dewatered, in preparation for stabilization. P-4 (roll 6) Cell 1A, 6 days after stabilization	ABB discussed sampling of Timaquana soils, as a possible cover material for PSC42. Will be discussed further after checking applicable guidelines.

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

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ABB Representatives:	Date:
Erin Allen	5-22-96, Wednesday
Bechtel Superintendent:	**U.S. Navy Representatives:**
Bill Norton Steve SantaMaria Mike Emelka	none

1. New Site Activities	Corresponding Sections of Work Plan
1. Stabilization of area between cells 1 and 2, where bladder 1 was removed. Soundings were performed prior to stabilization to determine depth of sludge. Thickest sludge was 1.2 feet. Rope stretched across area, marked at 5-foot increments, for horizontal control of soundings. Sample of mixed sludge/sediment collected to determine mud weight. At least 2-foot overlap was achieved with cells 1 & 2. Soundings were performed, from a boat, in stabilized material to verify sufficient depth of stabilization.	

2. Ongoing Site Activities	Corresponding Sections of Work Plan
1. One 50,000 gal. modular tank for water treatment system completed. 2. Part of excavated area around concrete pipe leading to chlorine contact chamber was stabilized. Concrete pipe was pressure washed after native soil around it excavated 18-inches below original level. Grout has not yet been blown over concrete pipe.	

3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval
none noted.	

4. Photographs/Video Documentation	Additional Issues
P-20 (roll5) Pink substance floating on water in excavated area above concrete pipe - likely hydraulic fluid. P-21 (roll5) Water being pumped from between stabilized cells 1 and 2 after removal of bladder 1 (N'ESE) P-22 (roll5) Depth soundings between stabilized cells 1 & 2. P-23 (roll5) Area between cells 1 and 2, partially stabilized P-1 (roll6) Stabilization near concrete pipe at contact chamber P-2 (roll6) Sounding between cells 1 and 2 to verify depth of stabilization	E. Allen asked BEI if they plan to take samples from the stabilized areas between cells, where bladders were situated, and BEI said samples will be taken in those areas for strength and TCLP analysis

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

copies to: ROICC ✓ FILE ✓

ABB Representatives: (on-site)	Date:
Erin Allen Fred Bragdon	5-21-96, Tuesday
Bechtel Superintendent: (on-site)	**U.S. Navy Representatives: (on-site)**
Bill Norton Steve SantaMaria Tom Rountree	none

1. New Site Activities	Corresponding Sections of Work Plan
1. Spillway in berm lined with rip-rap material. (The rip-rap is not from the P-3 hangar. This material had been removed, by the time Bechtel went to retreive it, so the rip-rap was purchased by BEI, from off the base)	WP Sec. 3.6.1
2. Bladder between cells 1 and 2 drained.	WP Sec. 3.3.1
3. Soil excavated around concrete pipe leading to chlorine contact chamber to prepare for stabilization. (See Additional Issues).	WP Sec. 2.5
4. 3 Samples of stabilized material from cell 2. collected by hand auguring, for TCLP analysis	BEI Summary of Sludge/Sediment Sampling Plan and WP Sec 5.2.4

2. Ongoing Site Activities	Corresponding Sections of Work Plan
1. Liner being placed in 50,000 gal. modular tanks for water treatment system	WP Sec 4.0
2. E. Allen and F. Bragdon compared preliminary analyticals for soil from ~~EP-3~~ on hangar used for dike with base background levels and MCG's. There were hits of Cr and Pb in the soil sample, but hits were within basewide background and/or MCG limits.	WP Sec. 5.2.3
3. ABB received draft technical memorandum and bench scale results from BEI on May 16, 1996.	WP Sec 3.1 and ABB Design Specifications

3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval
BEI's Summary of Sludge/Sediment Sampling Plan indicated that TCLP samples (except for cell 1) would be collected with a split spoon. Stabilized material in cell 2 had hardened enough that samples had to be collected by hand auguring. Due to the difficulties collecting the TCLP sample in cell 2, after stabilized material was hard enough to walk on, BEI has decided to sample subsequent cells on day of stabilization or day after.	The samples were collected, despite the variance in method. No jeopardy to design intent, as long as TCLP passes. Three samples were taken, rather than 5 as specified in BEI's Summary of Sludge/Sediment Sampling Plan. Only 3 samples are actually required, according to BEI Work Plan and ABB spec.'s, so this is acceptable.

4. Photographs/Video Documentation	Additional Issues
P-12 (roll5) Rip rap material, to line spillway. P-13 (roll5) Liner being placed in 50,000 gal. mod tank P-14 (roll5) 3 samples collected for TCLP anal. from cell 2. P-15 (roll5) Exposed concrete pipe, leading to chlorine contact. P-16 (roll5) Bladder 1 being drained P-17 (roll5) Spillway at SE end of dike lined with rip-rap P-18 (roll5) Native soil exposed along concrete pipe P-19 (roll5) Bladder 1, almost completely drained,	Native soil, light gray fine sand, was encountered along concrete pipe leading to chlorine contact chamber. Native soil was at level of top of pipe on N. side and about 4" below top of pipe on S. side. BEI plans to excavate native soil 18", then blow grout to surround and cover the pipe. The sludge/sediment from around the pipe will be deposited in areas yet to be stabilized. The pipe will be pressure washed prior to being grouted. ABB concurs with this plan.

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

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ABB Representatives: (on-site)	Date:
Erin Allen Fred Bragdon Don Haumann	5-20-96, Monday
Bechtel Superintendent: (on-site)	**U.S. Navy Representatives: (on-site)**
Tom Rountree Bill Norton	none

1. New Site Activities	Corresponding Sections of Work Plan
1. Rip rap material that will be used to line spillway brought to site and piled at SE end of site.	WP Sec. 3.6.1

2. Ongoing Site Activities	Corresponding Sections of Work Plan
1. Fabrication of one of the 50,000 gal. modular tanks for treatment unit continuing.	WP Sec. 4.0
2. Welding done on injector tine that has cracked.	WP Sec. 3.2.3 and 3.3.4
3. One sample (for TCLP) was collected from cell 2. There were difficulties collecting sample due to stiffness of stabilized material and trouble with sampling apparatus. Due to time constraint, collected sample was dumped back into cell, and five new samples will be collected on 5-21-96	WP Sec. 5.2.4 and Summary of Sludge/Sediment Sampling Plan for PSC 42

3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval
none noted.	

4. Photographs/Video Documentation	Additional Issues
P-11 (roll 5) Cell 2: after BEI has walked on surface, 4 days after stabilization. (W&E).	Note: Rolls of film previously developed were misnumbered. Corrections have been made in log book and on photos.

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

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ABB Representatives: (on-site)	Date:
Erin Allen	5-16-96, Thursday
Bechtel Superintendent: (on-site)	**U.S. Navy Representatives: (on-site)**
Bill Norton, Tom Rountree, Eddie Najmola, Steve Santamaria	none

1. New Site Activities	Corresponding Sections of Work Plan
1. Cell 2 stabilized. 2. Sample collected with backhoe (from cell 2) for unconfined compressive strength tests	WP Sec. 3.3.4 Summary of Sludge/Sediment Sampling Plan and WP 5.2.4

2. Ongoing Site Activities	Corresponding Sections of Work Plan
1. Tine on injector welded to repair cracked area at base, and a brace welded between cracked tine and adjacent tine.	WP Sec. 3.2.3

3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval
Sampling procedure changed. See weekly meeting minutes for 5-16-96 and "Additional issues" below. Change agreed upon by ABB, ROICC, Bechtel and FED.	Memo. for documentation will be produced by Bechtel. (WP Sec.

4. Photographs/Video Documentation	Additional Issues
P-8 (roll6) Stabilization of cell 2 (W & E) P-9 (roll6) Stabilization of cell 2 (NE & SW) P-10 (roll6) Sample collected for compressive strength tests from cell 2, in molds	Decision made during weekly meeting with ABB, FED, ROICC, and Bechtel to collect strength test samples on the day of stabilization with a backhoe; and to collect TCLP samples with a split spoon after stabilized material is safe to walk on. Bechtel will follow up with a memo. for documentation.

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

copies to: ROICC X FILE X

ABB Representatives:	Date:
Erin Allen Don Haumann	5-15-96, Wednesday
Bechtel Superintendent: (on-site)	**U.S. Navy Representatives: (on-site)**
Bill Norton Mike Emelka Tom Roundtree Steve SantaMaria	Fed.

1. New Site Activities	Corresponding Sections of Work Plan
1. Stabilization of about 20% of cell 2. Stabilization stopped due to cracked tine on injectors (same tine that cracked Fri, May 10). Tine ~~welded and~~ pulled back to correct alignment.	WP sec. 3.2.3
2. Water is hooked up to trailer.	WP sec. 5.1.3

2. Ongoing Site Activities	Corresponding Sections of Work Plan
1. 50,000-gal. modular tank being fabricated on compacted soil at SE end of site.	WP sec. 4.0 and sec. 3.4
2. Sample collected from cell 2 of mixed sludge/sediment for density measurement, collected by backhoe.	WP sec. 5.2.4 and Summary of Sludge/Sediment Sampling Plan for PSC 42

3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval
None noted.	

4. Photographs/Video Documentation	~~Additional Issues~~ (Photos, cont.)
P-1 (roll 6) Modular tank being installed at SE end of site. P-2 (roll 6) Cell 1, 5 days after stabilization (SW&NE) P-3 (roll 6) Dewatering of cell 2 (NW&S) P-4 (roll 6) Gap between stabilized material in cell 1 and first bladder.	P-5 (roll 6) Backhoe collecting sample of mixed sludge/sediment from cell 2 (NW&S) P-6 (roll 6) Second ~~cell~~ bladder bowed toward cell 3; rolled during dewatering of cell 2. P-7 (roll 6) Cracked tine on injector.

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

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ABB Representatives: (on-site)	Date:
Erin Allen	5-14-96, Tuesday
Bechtel Superintendent: (on-site)	**U.S. Navy Representatives: (on-site)**
Bill Norton, Steve Santa Maria, Tom Roundtree, Mike Emelka, Herman Bauer	FED: Diane Lancaster, Jane Mears, and others.

1. New Site Activities	Corresponding Sections of Work Plan

2. Ongoing Site Activities	Corresponding Sections of Work Plan
1. Soil being spread at SE end of site, for base for water treatment skid and modular tanks	WP Sec. 4.0, Sec. 3.4
2. New bladder (to replace one of the bladders which failed) arrived on-site, fabricated, and installed as bladder 2.	WP Sec. 3.3.1 and Appendix G
3. Tines on injector were welded to fix the cracked area on one tine, and to better secure the others to the bracket which connects them.	WP Sec. 3.2.3
4. Bechtel performed depth soundings for cell 2; thickest sludge was about 3.3 feet.	Design Spec. 02248 ~~t.Sec.~~ Ef4 1.5(6) and Summary of Sludge / Sediment Sampling Plan for PSC42

3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval
none noted	

4. Photographs/Video Documentation	Additional Issues
none	Diane Lancaster, FED, called Erin Allen to discuss submittals needed by ABB from Bechtel: bench scale results, technical memo.

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

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ABB Representatives: (On-site)	Date:
Erin Allen Adib Rahounji	5-13-96, Monday
Bechtel Superintendent: (On-site)	**U.S. Navy Representatives: (On-site)**
Bill Norton Tom Roundtree Steve Santa Maria	none

1. New Site Activities	Corresponding Sections of Work Plan
1. Dike surveyed by Arc surveying.	WP Sec 2.5
2. Parts delivered to site for fabrication of 2-5000gal. modular tanks for water treatment unit.	WP Sec. 3.4
3. ABB asked Bechtel to provide results of bench scale test, and technical memo detailing stabilization procedures. Bechtel said they will provide these documents by the end of the day, Tues. May 14.	WP Sec 3.1 and Spec. 01010
4. Soil spread at SE end of site, for a stable, slightly elevated platform to support water treatment skid and modular tanks.	WP Sec. 3.4
5. One tine on the injector unit cracked during stabilization of cell 1. It will be welded.	WP Sec 3.3.4
6. Second bladder away from chlorine contact chamber failed. The bladder rolled as cell 2	WP Sec 3.3.1 and Appendix G

~~2. Ongoing Site Activities~~ New site activities, cont.	Corresponding Sections of Work Plan
was being dewatered, and failure occurred	

3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval
none noted.	

4. Photographs/Video Documentation	Additional Issues
P-21 (roll 5) cell 1 after stabilization	

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

copies to: ROICC X FILE X

ABB Representatives:	Date:
Erin Allen	5-10-96, Friday
Bechtel Superintendent:	**U.S. Navy Representatives:**
Bill Norton, Tom Roundtree, Eddie Najmola, Frank Cater, Steve Santa Maria	none

1. New Site Activities	Corresponding Sections of Work Plan
1. Cell 1 dewatered. Bladder rolled some toward chlorine contact chamber, but this did not seem to affect containment of cell.	WP Sec. 3.3.2
2. Sample of mixed sludge/sediment collected for density and moisture content determination.	Summary of sludge/sediment Sampling Plan for PSC42 and WP 5.2.4
3. Tines on injectors marked in 1-foot increments to 6 feet to visually aid in determination of stabilization depth, and a line was marked 18-in. from original pond edge with paint as a guide for boundary of stabilization.	WP Sec. 1.3.1 and Summary of Sludge/Sediment Sampling Plan for PSC 42.
4. Stabilization of cell 1, at chlorine contact chamber.	WP Sec. 5.2.4
5. Bechtel backfilled over concrete pipe to contact chamber, because it was below water/sludge level after dewatering cell. BEI will stabilize around pipe by hand after the rest of the cell is stabilized. BEI said they will provide ABB with a memo explaining the change.	
2. ~~Ongoing Site Activities~~ New Site Activities, cont.	**Corresponding Sections of Work Plan**
6. Leakage of water into cell was occurring around intake gate to chlorine contact chamber, so BEI backfilled around chamber and will later stabilize that area by hand	
7. Sampling of stabilized material in cell 1. Five split spoon samples collected by boat and composited for TCLP and strength testing. Mix appeared homogeneous, so some additional sample was collected with a backhoe, so that there would be sufficient material for the required number of specimens. E. Allen suggested improved control on sampling locations in subsequent cells, so that samples of stabilized mix are taken at same location as some of the depth soundings.	Summary of Sludge/Sediment Sampling Plan for PSC42 and WP 5.2.4 and WP 6.2.1

3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval
1. Samples of stabilized mix in cell 1 collected from a boat rather than a manlift as staked in Bechtel's summary sampling plan.	No necessary documentation. The samples were collected within 24 hrs. of stabilization, and the sampling platform is not critical.
2. Cell 1 was not completely stabilized, as soil was backfilled around entire chlorine contact chamber, including inlet pipe to chamber.	Bechtel needs to provide documentation stating the reasons for backfilling around contact chamber, and their plans to stabilize the area which was backfilled by hand. As long as the cell is stabilized, this change will not affect closure.

4. Photographs/Video Documentation	Additional Issues
P-1 through P-20 (rolls): Stabilization and sampling activities for cell 1, at chlorine contact chamber	

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

copies to: ROICC X FILE X

ABB Representatives: (on-site)	Date:
Erin Allen	5-9-96, Thursday
Bechtel Superintendent: (on-site)	**U.S. Navy Representatives: (on-site)**
Eddie Najmola, Tom Rowdtree, Bill Norton, Mike Enelken, Steve Santa Maria	none

1. New Site Activities	Corresponding Sections of Work Plan
1. Water treatment skid arrived on-site. 2. Manlift delivered to site, to be used for sampling stabilized material in first cell. 3. Ten depth soundings performed in area of pond that will constitute first cell, at chlorine contact chamber. Soundings done using PVC pipe marked in 0.1 foot increments. Measurement taken from a boat. Elevation of water at NE end of pond also recorded by Bechtel, using a level. Average sludge thickness was about 2 feet. 4. Organic material beginning to float on surface of pond water between bladders.	WP Sec. 3.4 Summary of Sludge/Sediment Sampling Plan for PSC 42

2. Ongoing Site Activities	Corresponding Sections of Work Plan
1. Third bladder (away from chlorine contact chamber) removed from pond, straightened out, re-rolled, and re-installed in pond to contain first cell, at chlorine contact chamber. This bladder replaces bladder which failed. 2. Grouted portion of inlet pipe has hardened. 3. First bladder, which failed, disposed into roll-off C25170D, with tree trunks from pond. Roll-off will be disposed as hazardous.	WP Sec. 3.3.1 WP Sec. 2.4 WP Sec. 4.0

3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval
none noted.	

4. Photographs/Video Documentation	~~Additional Issues~~ Photographs
P-17 (roll 4) Pulling inner tubes of bladder through geotextile outer tubes with backhoe P-18 (roll 4) Pumping air into inner tubes of bladder to help straighten them out. P-19 (roll 4) Water treatment skid, on flatbed delivery truck P-20 (roll 4) Performance of depth soundings to record depths to ~~sludge~~ sludge and sediment, cell 1.	P-21 (roll 4) Organic matter floating on pond water between bladders. Additional issues: E. Allen expressed concern to Bill Norton and Eddie Najmola about displacement of first bladder upon dewatering of first cell, if bladder not allowed to settle for 24 hours. Bechtel felt first bladder would not displace because: a.) water level in pond has dropped a few inches. b.) sludges beneath first bladder are displaced already by the bladder which failed, and was removed.

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

copies to: ROICC X FILE X

ABB Representatives: (On-site)	Date:
Erin Allen Fred Bragdon Don Haumann	5-8-96, Wednesday
Bechtel Superintendent: (on-site)	**U.S. Navy Representatives: (on-site)**
Bill Norton Steve SantaMaria Tom Roundtree Eddie Najmola	none
1. New Site Activities	**Corresponding Sections of Work Plan**
1. Steve SantaMaria, Erin Allen, Don Haumann met to discuss sampling procedures to be employed throughout stabilization. Bechtel provided a typed summary of Sludge / Sediment Sampling Plan for PSC 42. Don Haumann signed the plan to give ABB approval. 2. Steve SantaMaria, Eddie Najmola, Erin Allen and Don Haumann discuss incorporation of PSC 41 stabilized material into PSC 42. Decision was made that PSC 41 material will be broken up, spread on stabilized material at PSC 42, and backfilled over.	WP Sec. 5.2.4
2. Ongoing Site Activities	**Corresponding Sections of Work Plan**
1. Electrical conduit line in place, trench backfilled; transformer being installed at SE end of site, for water treatment skid. 2. Second stage of grouting inlet pipe at SE end of pond. 3. Third bladder (away from chlorine contact chamber) being drained; it will be moved and re-filled to replace first bladder, which broke.	WP Sec. 5.1.3 WP Sec. 2.4 WP Sec. 3.3.1 and Appendix G
3. Deviations from Work Plan	**Reason for Deviation/Documentation of Approval**
None noted.	
4. Photographs/Video Documentation	**Additional Issues**
P-16 (roll 4) roll-off C25170D filled with logs from pond.	

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

copies to: X ROICC X file

ABB Representatives: (on-site)	Date:
Erin Allen Fred Bragdon	5-7-96, Tuesday
Bechtel Superintendent: (on-site)	**U.S. Navy Representatives: (on-site)**
Bill Norton Tom Roundtree Steve Santa Maria	none

1. New Site Activities	Corresponding Sections of Work Plan
1. Bladder nearest chlorine contact chamber ruptured since completion of Bechtel work day, 5-6-96. Appears that geotextile split, then inner tubes split. New bladder ordered to site.	WP Sec. 3.3.1 and Appendix G
2. Trench dug for electrical conduit for treatment skid; elec line laid in trench	WP Sec. 5.1.3
3. First load of Portland cement delivered for stabilization unit; ~~elec line laid in trench~~	WP Sec. 3.3.3
4. Grouting of inlet pipe at SE end of pond begun. Some leakage of grout occured, so Bechtel decided inlet pipe will be stage-grouted	WP Sec. 2.4

2. Ongoing Site Activities	Corresponding Sections of Work Plan
1. Silt fence and hay bales placed around drainage basin at NE edge of pond, inside fence	WP Sec. 3.6.1
2. Roll-off C25170D has been filled with stumps from pond; will be disposed as hazardous	WP Sec. 4.0
3. Stockpiled soil on east side of pond, blocking outlet for spillway pushed northward, so that any overflow would not be blocked	WP Sec. 3.6.1

3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval
WP Sec. 2.4 states that inlet/overflow pipe at SE end of pond would be grouted prior to construction of dike.	No effect on RCRA closure; change only in construction sequence; no documentation necessary.

4. Photographs/Video Documentation	~~Additional Issues~~ for Photographs
P-8 (roll 4) first bladder (nearest chlorine contact chamber) after geotextile split and inner tubes ruptured P-9 (roll 4) Hopper on stabilization unit being filled with Portland cement. P-10 (roll 4), P-11 (roll 4) grouting inlet pipe at SE end of pond. P-12 (roll 4) Disturbance of pond sludge during grouting inlet	P-13 (roll 4) Area in pond about 20' west of inlet pipe, where grout appears to be leaking P-14 (roll 4) Soil piled in front of pond-side of inlet pipe to prevent grout leakage from that point P-15 (roll 4) Electrical conduit being laid in trench south of pond, south side of fence

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

copies to: X ROICC X file

ABB Representatives: (on-site)	Date:
Erin Allen Brian Johnson Fred Bragdon	5-6-96, Monday
Bechtel Superintendent: (On-site)	**U.S. Navy Representatives (On-site)**
Bill Norton Tom Roundtree ~~Steve Santa Maria~~	None

1. New Site Activities	Corresponding Sections of Work Plan
1. Grout line from stabilization unit in place	
2. PWC delivered roll-off C25170D to site	WP Section 4.
3. Bechtel excavated area on SE portion of dike, at presumed location of final cell, about 20 feet long, 1 foot deep for spillway	WP Sec. 2.5, Sec. 3.6.1
4. Additional pond water pumped into first and second bladder, to get them more full, allow for additional freeboard. First bladder (nearest chlorine contact chamber) bulging from center in N+S directions.	WP Sec. 3.3.1, Appendix G
5. Holes chiseled in concrete inlet pipe at SE end of pond. One hole if for grout injection; second hole is for insertion of drum liner filled with sand to plug pipe.	WP Sec. 2.4

2. Ongoing Site Activities	Corresponding Sections of Work Plan
1. Third water structure keyed into dike at NW end of pond, and filled with pond water.	WP Sec. 3.3.1, Appendix G
2. Compaction test on fifth (final) lift of berm	WP Sec. 2.5
3. Haybales and silt fence placed around inlet pipe basin at SE end of pond.	WP Sec. 3.6.1

3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval
None noted.	

4. Photographs/Video Documentation	Additional Issues
P-5 (roll 4) Haybales and silt fence around inlet pipe basin at SE end of pond P-6 (roll 4) Concrete inlet pipe at SE end of pond; hole chiseled for grout injection; hole chiseled to insert drum liner filled with sand to plug pipe P-7 (roll 4) Transporting fourth bladder (9-foot bladder) to NW end of pond.	There is a storm water drainage basin east of pond, outside fence. Bechtel feels it is not necessary to put silt fence and hay bales around the structure, because of its distance from the pond. 2. If concrete blocks from P-3 hangar do not provide enough rip-rap, BEI stated that they will order rip-rap material

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

copies to: X ROICC X file

ABB Representatives:	Date:
Erin Allen Brian Johnson	5-2-96
Bechtel Superintendent (On-site)	**U.S. Navy Representatives:**
Bill Norton Tom Roundtree	none

1. New Site Activities	Corresponding Sections of Work Plan
1. Second water structure keyed in to dike and westernmost finger of land, filled with pond water.	3.3.1
2. Enreco completed adapter for CAT 235, allowing stabilization injectors to fit that machine	3.2.3
3. Bechtel did elevation readings with a level around berm to determine areas needing more, or less, soil in order to achieve ~~of~~ a consistent elevation of 18.5 feet	2.5
4. ABB walked around site to locate catch basins needing hay bales and silt fences around them.	3.6.1

2. Ongoing Site Activities	Corresponding Sections of Work Plan
1. Grading berm to complete fifth lift and smooth it out after heavy rains Tues., April 30	3.6.1
2. Water structure completely filled and anchored for first stabilization cell.	3.3.1

3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval
None noted	

4. Photographs/Video Documentation	Additional Issues
P-25 (roll 3) Wtr. structure in place for first cell P-1 (roll 4) Pumps used to fill water structures P-2 (roll 4) Flotation used to keep pump hose out of sludge P-3 (roll 4) Area on finger of land keyed in for second structure P-4 (roll 4) Second structure being filled at NW end of pond.	Portland cement should be delivered by Monday for stabilization unit.

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

copies to: X ROICC X file

ABB Representatives:	Date:
Erin Allen Brian Johnson Steve Mitchell	5-1-96
Bechtel Superintendent: (On-site)	**U.S. Navy Representatives:**
Bill Norton Tom Roundtree	None

1. New Site Activities	Corresponding Sections of Work Plan
1. Silt fence and hay bales place around grate for diversion valve for concrete pipe near chlorine contact chamber.	3.6.1
2. Brian Johnson and Erin Allen looked at concrete blocks that were broken for strength testing as a possible rip rap for dike overflow structure. According to FDOT reg. . the concrete blocks are acceptable for rip-rap.	3.6.1
3. First water structure (placed for practice near chlorine contact chamber) was partially drained on 4-30-96 in afternoon. ABB was not present. Draining completed today and structure moved and keyed into dike, and partially filled for first stabilization cell. During keying in bladder, contractor feels that very little contaminated material is scraped away from pond edge. Moved material will be stabilized with next consecutive cell.	3.3.1

2. Ongoing Site Activities	Corresponding Sections of Work Plan
None	

3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval
None noted.	

4. Photographs/Video Documentation	Additional Issues/Comments
None.	Brian Johnson and Steve Mitchell from ABB-Portland Design Services Center on-site to observe activities and to attend weekly meeting with Bechtel and ROICC

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond
copies to: X ROICC & file

ABB Representatives:	Date:
Brian Johnson Erin Allen	4-30 96
Bechtel Superintendent:	**U.S. Navy Representatives:**
Bill Norton	None
1. New Site Activities	**Corresponding Sections of Work Plan**
None	
2. Ongoing Site Activities	**Corresponding Sections of Work Plan**
None - (raining hard all day)	
3. Deviations from Work Plan	**Reason for Deviation/Documentation of Approval**
None noted	
4. Photographs/Video Documentation	**Additional Issues/Comments.**
None	None. Brian Johnson from ABB-Portland Design Center on site to observe activities until May 9, 1996.

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

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ABB Representatives:	Date:
Erin Allen Brian Johnson ABB-Portland Design Services Center Fred Bragdon	4-29-96
Bechtel Superintendent:	**U.S. Navy Representatives:**
Bill Norton	none
1. New Site Activities	**Corresponding Sections of Work Plan**
none	
2. Ongoing Site Activities	**Corresponding Sections of Work Plan**
Enreco and Bechtel working on pump to stabilization unit; ran pond water through pump. spreading and compaction of soil for fifth lift of berm.	5.2.3
3. Deviations from Work Plan	**Reason for Deviation/Documentation of Approval**
none noted.	
4. Photographs/Video Documentation	**Additional Issues**
none.	none.

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

copies to: x Roice x file

ABB Representatives:	Date:
Erin Allen	4-25-96
Bechtel Superintendent:	**U.S. Navy Representatives:**
Bill Norton Tom Roundtree Steve Santamaria	None

1. New Site Activities	Corresponding Sections of Work Plan
- Equipment maintenance on Stabilization unit pump - Trial run of stabilization system, using pond water, but no concrete. - Conversation will Bill Norton about surveying completed berm to detm. final elevation, slope, and coordinates of corners. B Norton said this will be done professionally and an as-built will be generated.	WP Sec. 2.5

2. Ongoing Site Activities	Corresponding Sections of Work Plan
Soil being graded and compacted for fifth lift of berm	WP: 2.5 + 5.2.3

3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval
none noted	

4. Photographs/Video Documentation	Additional Issues
Roll 3 (p.23 + p.24) Wildlife at pond	

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

copies to: ROICC X FILE X

ABB Representatives:	Date:
Erin Allen Don Haumann	4-24-96
Bechtel Superintendent:	**U.S. Navy Representatives:**
Bill Norton Steve SantaMaria	none
1. New Site Activities	**Corresponding Sections of Work Plan**
- Compaction test on N. side of 4th lift of berm. ABB rep's at weekly Mtg; will be given copy of results.	WP Sec. 5.2.3
- D. Haumann, E. Allen, S. Santamaria surveyed elevation of dike above pond water level, to insure at least 30." At two location, S. end of pond, dike is 5.11 and 4.79'	WP Sec. 2.5
- D. Haumann, E. Allen, S. Santamaria, E. Najmola discuss design of overflow structure	WP sec. 2.5
~~- Hauling soil to dike, stockpiling on east + North.~~ SEE	
- Call between E. Allen, D. Haumann, S. Santamaria Brian Johnson - ABB, Portland, to discuss sampling technique and dike height.	WP sec. 25 and 5.2.4
2. Ongoing Site Activities	**Corresponding Sections of Work Plan**
- Hauling soil to dike, stockpiling on North + east side of pond.	WP Sec. 5.2.3
- Compacting soil on N. end of pond's dike, 4th lift.	WP Sec 5.2.3
- Spreading soil on fingers of land into pond and on berm for fifth lift.	
3. Deviations from Work Plan	**Reason for Deviation/Documentation of Approval**
none noted	
4. Photographs/Video Documentation	**5. Comments**
(Roll 3) P-22 One injector of stabilization system attached to Catpillar 320 machinery. (WP sec. 3.2.3)	

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

copies to: ROICC ____ FILE ✓

ABB Representatives:	Date:
E. Allen F. Bragdon	4-23-96
Bechtel Superintendent:	**U.S. Navy Representatives:**
Bill Norton, Steve Santa Maria	None

1. New Site Activities	Corresponding Sections of Work Plan
Density (compaction) testing of S, W, + E sides of berm, 4"/lft.	WP Sec. 5.2.3
Stabilization equipment set up on a 30'x30'x1' compacted pad of soil at south end of pond.	WP Sec. 5.2.4
BEI took composite soil sample of material spread on east side of pond, requested by J. Haumann, ABB-ES.	WP Sec. 6.2.

2. Ongoing Site Activities	Corresponding Sections of Work Plan
Soil stockpiled on east and north sides of pond	WP Sec. 5.2.3

3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval
None noted.	

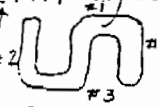
4. Photographs/Video Documentation	5. Comments
(roll 3) P-10 Views of berm, legs pulled from berm material, stabilization equipment, wildlife at pond	Keys to compactor lost in morning, and fuel filter problem with grader in afternoon slowed work.

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

copies to: ROICC ____ FILE ✓

ABB Representatives:	Date:
E. Allen F. Bragdon	4-22-96
Bechtel Superintendent:	**U.S. Navy Representatives:**
Bill Norton	none

1. New Site Activities	Corresponding Sections of Work Plan
Stabilization equipment delivered to South side of pond Density (compaction) testing of third lift of berm by CSI 4 test locations  - % compaction ranged from 104.5-112% - mc. ranged from 12.3 to 16.5 Soil being spread on fingers of land into pond but not [illegible]	WP Sec. 5.2.4 WP Sec. 5.2.3
2. Ongoing Site Activities	**Corresponding Sections of Work Plan**
Soil being stockpiled on North and ~~West~~ East sides of pond, and being spread in 3-inch layers for drying.	WP Sec. 5.2.3
3. Deviations from Work Plan	**Reason for Deviation/Documentation of Approval**
None noted	
4. Photographs/Video Documentation	**5. Comments**
Roll 3 (P-3 through P-9) Stabilization equipment and nuclear density testing.	weather: clear, windy, dry

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

copies to: ROICC ____ FILE ✓

ABB Representatives:	Date:
FRED BRAGDON	4-19-96
Bechtel Superintendent:	**U.S. Navy Representatives:**
Bill Norton	
1. New Site Activities	**Corresponding Sections of Work Plan**
- Density (Compaction) Testing of the 2nd lift - completed 7 test locations - all passed (ranged from 100 - 103.4% compaction - two areas slightly wetter than Bechtel's target - Testing Conducted by CSI	WP Sec. 5.2.3
2. Ongoing Site Activities	**Corresponding Sections of Work Plan**
- Continue to haul dike fill - placing on 2nd lift and in stock-pile area	WP Sec. 5.2.3
3. Deviations from Work Plan	**Reason for Deviation/Documentation of Approval**
None Noted	
4. Photographs/Video Documentation	**Additional Issues**
Photo doc. of the Density testing.	

Copy sent to Lovvy 4-18-96

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

ABB Representatives:	Date:
FRED BRAGDON	4-18-96
Bechtel Superintendent:	**U.S. Navy Representatives:**
Bill Norton	

1. New Site Activities	Corresponding Sections of Work Plan
- Performed Density test on 1st lift of the dike - Standardization test performed - 8 Density tests (8 locations) 2 on each side - all test results exceeded the minimum of 94% - all moisture contents (based on the machine) were "with in range", Tony Arnettat CSI	WP Section 5.2.3
2. Ongoing Site Activities	**Corresponding Sections of Work Plan**
- continue to stock pile soil material for dike - added more soil fill to the lay-down area. - Start spreading and compacting Lift#2 - Density Testing planned for Fri 7.00AM	- Sec. 5.2.3 — Sec. 5.1.4
3. Deviations from Work Plan	**Reason for Deviation/Documentation of Approval**
None noted	
4. Photographs/Video Documentation	**Additional Issues**
Photographics of the area, working equipment, and 1st lift were made finished Roll #1 on 2nd lift	

Larry Blackburn (copy to Larry 4-17-96)

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

ABB Representatives:	Date:
Don Haumann 09.35 AM – 12:15 pm FRED BRAGDON	4-17-96
Bechtel Superintendent:	**U.S. Navy Representatives:**
Bill Norton (S.S.)	
1. New Site Activities	**Corresponding Sections of Work Plan**
– Fill being delivered and stocked on west side of pond – Discussed with Bill Norton (SS-Bechtel) * Compaction testing to start 7:00-7:30 AM 4-18-96. * Friday will consist of only hauling fill No spreading or compaction.	2.5 Containment Dike
2. Ongoing Site Activities	**Corresponding Sections of Work Plan**
– Continued to spread and compact dike fill all sides – Fencing about 90-95% Complete	2.5 Containment Dike 2.1.2 Temporary Facilities (fencing)
3. Deviations from Work Plan	**Reason for Deviation/Documentation of Approval**
None Noted	
4. Photographs/Video Documentation	**Additional Issues**
None.	

Copy to Larry B 4-18-96

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

ABB Representatives:	Date:
F. Bragdon	4-16-96
Bechtel Superintendent:	**U.S. Navy Representatives:**
Bill Norton	
1. New Site Activities	**Corresponding Sections of Work Plan**
None	
2. Ongoing Site Activities	**Corresponding Sections of Work Plan**
– Fencing - post ±90% complete chainlink ±50% complete – spreading dike material to enhance airdrying. – hold up with delivery of additional dike material	– W.P. Sec. 2.1.2 WP Sections 2.5 and 5.2.3
3. Deviations from Work Plan	**Reason for Deviation/Documentation of Approval**
None	
4. Photographs/Video Documentation	**Additional Issues**
None	

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

copies to: ROICC ____ FILE ✓

ABB Representatives:	Date:
Fred BRAGDON	4-15-96
Bechtel Superintendent:	**U.S. Navy Representatives:**
Bill Norton	—

1. New Site Activities	Corresponding Sections of Work Plan
- Bechtel Decommissioned 4 existing wells (ABB-ES was not present) 42-8R, 42-7, 42-6, and 42-5 - Above ground portion of these 4 wells and one previously decommissioned well (42-8) removed and material piled at north end of PP area.	WP Sec 3.11 (Appendix B, 22567-001-SP000-022) and WP Sec 2.3
2. Ongoing Site Activities	**Corresponding Sections of Work Plan**
- Bechtel working on 1st lift - Bechtel waiting for additional soil	WP Sec 5.2.3
3. Deviations from Work Plan	**Reason for Deviation/Documentation of Approval**
None Noted	
4. Photographs/Video Documentation	**Additional Issues**
None.	

DAILY SITE VISIT

Construction Oversight, PSC 42 - Serpentine Pond

copies to: ROICC ____ FILE ✓

ABB Representatives:	Date:
FRED BRAGDON	4-11-96
Bechtel Superintendent:	**U.S. Navy Representatives:**
Bill Norton (Bechtel)	
1. New Site Activities	**Corresponding Sections of Work Plan**
- Fencing operation started near the Northwest corner of project area. - per Norton - one proctor test completed of representative (composit) sample from source. by CSI	- WP Sec 2.1.2
2. Ongoing Site Activities	**Corresponding Sections of Work Plan**
- Clearing and Grubbing vegetation around pond (0-25' zone).	- WP Sec 2.2
3. Deviations from Work Plan	**Reason for Deviation/Documentation of Approval**
None Noted	
4. Photographs/Video Documentation	**Additional Issues**
None.	

DAILY SITE VISIT
Construction Oversight, PSC 42 - Serpentine Pond

ABB Representatives:	Date:
Erin Champ Fred Bragdon	4-1-96
Bechtel Superintendent:	**U.S. Navy Representatives:**
Eddie Nagmoda	—

1. New Site Activities	Corresponding Sections of Work Plan

2. Ongoing Site Activities	Corresponding Sections of Work Plan
Water Structure Dam placed in front of (South) of chlorine contact chamber	3.3.1
Decon. pad (finished)	5.2.2
Clearing/Grubbing (finished)	2.2.
Refueling tank in place	4.4

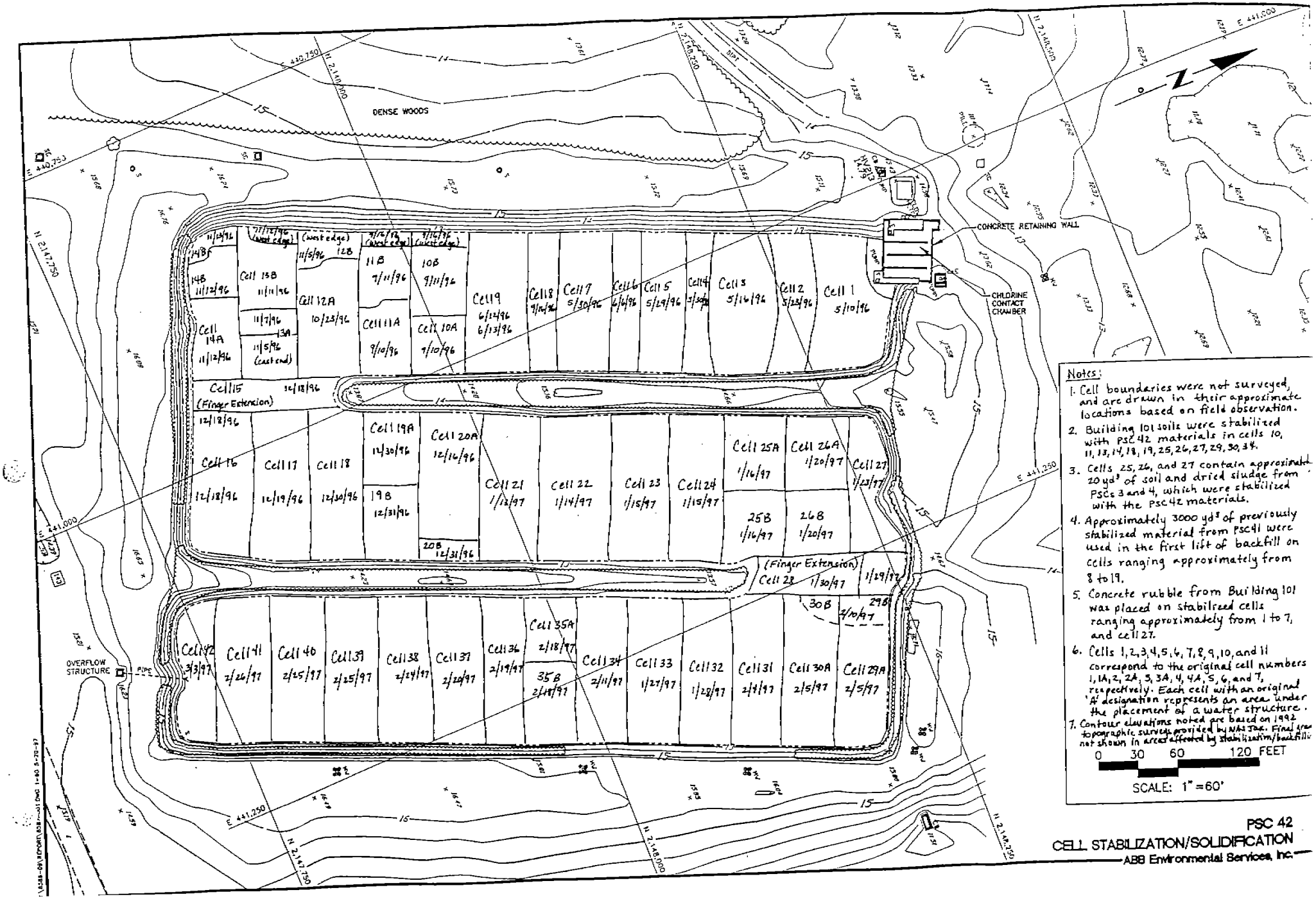
3. Deviations from Work Plan	Reason for Deviation/Documentation of Approval

4. Photographs/Video Documentation	Additional Issues

Erin Champ

APPENDIX B

PSC 42 CELL STABILIZATION/SOLIDIFICATION MAP



Notes:

1. Cell boundaries were not surveyed, and are drawn in their approximate locations based on field observation.
2. Building 101 soils were stabilized with PSC 42 materials in cells 10, 11, 13, 14, 18, 19, 25, 26, 27, 29, 30, 31.
3. Cells 25, 26, and 27 contain approximately 20 yd³ of soil and dried sludge from PSCs 3 and 4, which were stabilized with the PSC 42 materials.
4. Approximately 3000 yd³ of previously stabilized material from PSC 41 were used in the first lift of backfill on cells ranging approximately from 8 to 19.
5. Concrete rubble from Building 101 was placed on stabilized cells ranging approximately from 1 to 7, and cell 27.
6. Cells 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, and 11 correspond to the original cell numbers 1, 1A, 2, 2A, 3, 3A, 4, 4A, 5, 6, and 7, respectively. Each cell with an original 'A' designation represents an area under the placement of a water structure.
7. Contour elevations noted are based on 1992 topographic survey provided by Nat Inc. Final grades not shown in areas affected by stabilization/backfilling.

0 30 60 120 FEET

SCALE: 1" = 60'

PSC 42

CELL STABILIZATION/SOLIDIFICATION

ABB Environmental Services, Inc.

APPENDIX C

UNCONFINED COMPRESSIVE STRENGTH SAMPLING RESULTS

APPENDIX C

Unconfined Compressive Strength Sampling Results

CSI
CIVIL SERVICES INC.
CONSULTING ENGINEERS

CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 | Report No.: CON0196
Location: Jacksonville, Florida | CSI Project No.:
Architect / Engineer: Bechtel Enviromental | Date: 24-May-96
Contractor: Bechtel Enviromental | Design Strength: 30 psi
Supplier: | Mix Design No.: Sand Cement
Date Cast: 10-May-96 | Date Received: 13-May-96 | Cylinders made by: BECHTEL | No. Submitted: 2

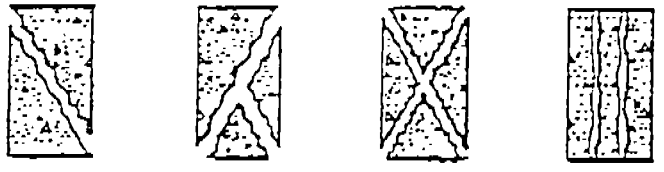
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.		FIELD TEST DATA	
Cement	Cement		Slump. Ins.	Air, %
F.A.	F.A.		Ticket No.	Truck No.
C.A.	C.A.		Unit Wt:	Time:
A.E.A.	Water		Temp., F: Air -	Conc.
Admix.	A.E.A.	Admix.	Cubic Yds. Placed	

Location of Pour: PSC 42 (Cell 1)

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-196A	17-May-96	7	1	6	400	60	1		MB
NX-196B	24-May-96	14	1	13	500	70	1		MB

FRACTURE TYPE



Remarks: 5/17/96 87% moisture 5/24/96 43.2% moisture

Reviewed by: Melvin L Burchan

CSI
CIVIL SERVICES INC.
CONSULTING ENGINEERS

CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 | Report No.: CON0358

Location: Jacksonville, Florida | CSI Project No.:

Architect / Engineer: Bechtel Enviromental | Date: 05-Jun-96

Contractor: Bechtel Enviromental | Design Strength: 30 PSI

Supplier: | Mix Design No.: Sand Cement

Date Cast: 22-May-96 | Date Received: 28-May-96 | Cylinders made by: BECHTEL | No. Submitted: 2

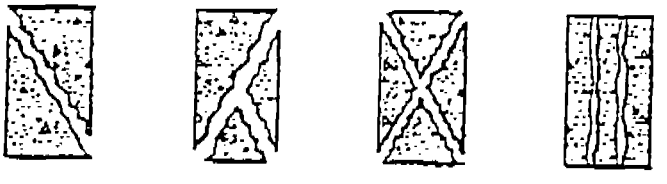
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.		FIELD TEST DATA	
Cement	Cement		Slump, Ins.	Air, %
F.A.	F.A.		Ticket No.	Truck No.
C.A.	C.A.		Unit Wt:	Time:
A.E.A.	Water		Temp., F: Air -	Conc.
Admix.	A.E.A.	Admix.	Cubic Yds. Placed	

Location of Pour: PSC 42 Cell #1-A (Cell 2)

COMPRESSIVE STRENGTH - 6" x 6" x 18" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-396A	05-Jun-96	7	6	1	140	20	1		MB
NX-396B	12-Jun-96	14	6	8	220	30	1		MB

FRACTURE TYPE



Remarks: 05/29/96 68% moisture content Moisture 6/5

Reviewed by: Melvin L Buchanan

CSI
CIVIL SERVICES INC.
CONSULTING ENGINEERS

CONCRETE STRENGTH REPORT
revised

Project: NAS Jax PSC 42 — Report No.: CON0296

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 06-Jun-96

Contractor: Bechtel Enviromental — Design Strength: 30 psi

Supplier: — Mix Design No.: Sand Cement

Date Cast: 16-May-96 — Date Received: 20-May-96 — Cylinders made by: BECHTEL — No. Submitted: 2

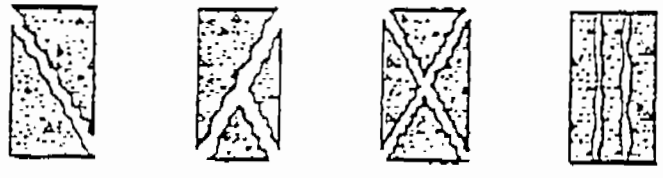
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA	
Cement	Cement	Slump, Ins.	Air, %
F.A.	F.A.	Ticket No.	Truck No.
C.A.	C.A.	Unit Wt:	Time:
A.E.A.	Water	Temp., F: Air -	Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed	

Location of Pour: PSC 42 Cell #2 (Cell 3)

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-296A	23-May-96	7	1	6	250	35	1		MB
NX-296B	06-Jun-96	14	1	13	355	50	1		MB

FRACTURE TYPE



Remarks: 05/23/96 81.5% moisture 05/30/96 74% moisture

Reviewed by: Melissa L. Buchanan

CSI
CIVIL SERVICES INC.
CONSULTING ENGINEERS

CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42
Location: Jacksonville, Florida
Architect / Engineer: Bechtel Environmental
Contractor: Bechtel Environmental
Supplier:

Report No.: CON0696
CSI Project No.:
Date: 13-Jun-96
Design Strength: 30 PSI
Mix Design No.: Sand Cement

Date Cast: 30-May-96 Date Received: 31-May-96 Cylinders made by: BECHTEL No. Submitted: 2

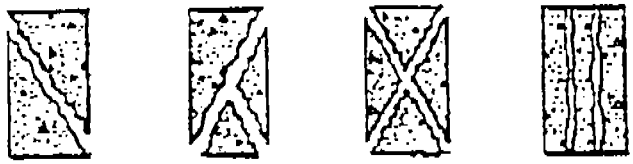
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA
Cement	Cement	Slump, in. / Air, %
F.A.	F.A.	Ticket No. / Truck No.
C.A.	C.A.	Unit Wt. / Time:
A.E.A.	Water	Temp., F: Air / Conc.
Admix.	A.E.A. / Admix.	Cubic Yds. Placed

Location of Pour: PSC 42 Cell #2-A (Cell 4)

COMPRESSIVE STRENGTH - 6" x 6" x 18" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-696A	06-Jun-96	7	1	6	85	10	1		MB
NX 606B	13-Jun-96	14	1	13	175	20	1		MB

FRACTURE TYPE



Remarks: Moisture Content 6/7.70.4%

Reviewed by

CSI
CIVIL SERVICES INC.
CONSULTING ENGINEERS

CONCRETE STRENGTH REPORT

Project	NAS Jax PSC 42	Report No.	CELL 2-A
Location	Jacksonville, Florida	CSI Project No.	
Architect / Engineer	Bechtel Enviromental	Date	09-Jul-96
Contractor	Bechtel Enviromental	Design Strength	30 psi
Supplier		Mix Design No.	Sand Cement

Date Cast 08-Jul-96 Date Received 09-Jul-96 Cylinders made by BECHTEL No. Submitted 2

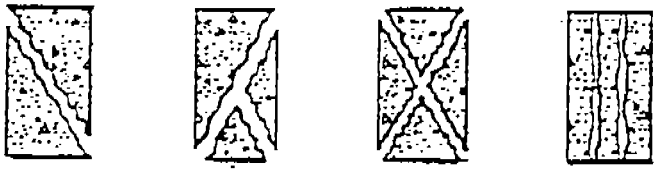
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.		FIELD TEST DATA	
Cement	Cement		Slump. Ins.	Air. %
F.A.	F.A.		Ticket No.	Truck No.
C.A.	C.A.		Unit Wt:	Time:
A.E.A.	Water		Temp., F: Air -	Conc.
Admix.	A.E.A.	Admix.	Cubic Yds. Placed	

Location of Pour Field Cores at Cell #2 A (Cell 4)

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
CELL 2-A	09-Jul-96				415	70	3		AR

FRACTURE TYPE



Remarks

Reviewed by

CSI
CIVIL SERVICES INC.
CONSULTING ENGINEERS

CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 | Report No.: CON[illegible]96
Location: Jacksonville, Florida | CSI Project No.:
Architect / Engineer: Bechtel Enviromental | Date: 12-Jun-96
Contractor: Bechtel Enviromental | Design Strength: 30 PSi
Supplier: | Mix Design No.: Sand Cement
Date Cast: 29-May-96 | Date Received: 31-May-96 | Cylinders made by: BECHTEL | No. Submitted: 2

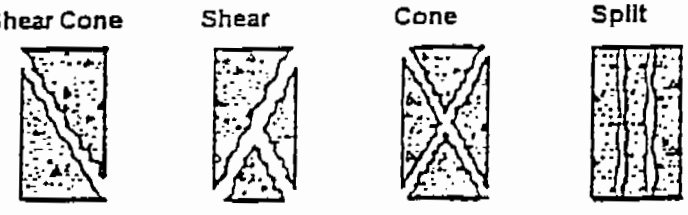
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.		FIELD TEST DATA	
Cement	Cement		Slump, Ins.	Air, %
F.A.	F.A.		Ticket No.	Truck No.
C.A.	C.A.		Unit Wt.	Time:
A.E.A.	Water		Temp. F: Air -	Conc.
Admix.	A.E.A.	Admix.	Cubic Yds. Placed	

Location of Pour: PSC 42 Cell 3 (Cell 5)

COMPRESSIVE STRENGTH - 6" x 6" x 18" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-496A	05-Jun-96	7	1	6	145	20	1		MB
NX-496B	12-Jun-96	14	1	13	205	30	1		MB

FRACTURE TYPE



Remarks: Moisture Content 6/5 72.4%
NOTE: You may need to use a little more cement, you are just barely passing. MB

Reviewed by

CSI
CIVIL SERVICES INC.
CONSULTING ENGINEERS

CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: CON0796

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 20-Jun-96

Contractor: Bechtel Enviromental — Design Strength: 30 PSI

Supplier: — Mix Design No.: Sand Cement

Date Cast: 06-Jun-96 — Date Received: 10-Jun-96 — Cylinders made by: BECHTEL — No. Submitted: 2

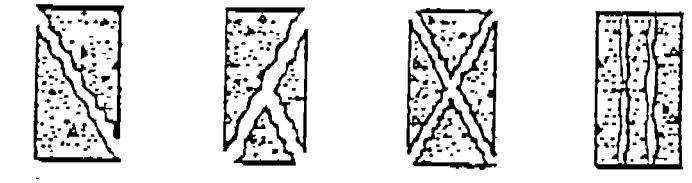
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA
Cement	Cement	Slump, Ins. / Air, %
F.A.	F.A.	Ticket No. / Truck No.
C.A.	C.A.	Unit Wt. / Time:
A.E.A.	Water	Temp., F: Air - / Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed

Location of Pour: PSC 42 Cell #3-A (Cell 6)

COMPRESSIVE STRENGTH - 6" x 6" x 18" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-796A	13-Jun-96	7	1	6	300	40	1		MB
NX-796B	20-Jun-96	14	1	13	1,000	140	2		AR

FRACTURE TYPE



Remarks: #B Moisture - 37.6%

Reviewed by

CSI
CIVIL SERVICES INC.
CONSULTING ENGINEERS

CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: CELL 4

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 09-Jul-96

Contractor: Bechtel Enviromental — Design Strength: 30 psi

Supplier: — Mix Design No.: Sand Cement

Date Cast: 08-Jul-96 — Date Received: 09-Jul-96 — Cylinders made by: BECHTEL — No. Submitted: 2

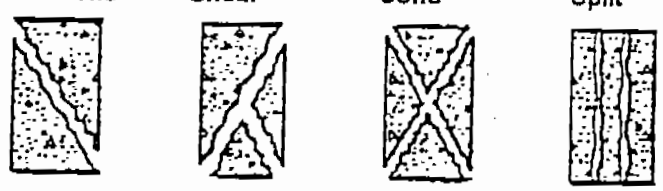
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA
Cement	Cement	Slump, Ins. / Air, %
F.A.	F.A.	Ticket No. / Truck No.
C.A.	C.A.	Unit Wt: / Time:
A.E.A.	Water	Temp., F: Air - / Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed

Location of Pour: Field Cores at Cell 4 (Cell 7)

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
CELL4	09-Jul-96				375	63	2		AR

FRACTURE TYPE



Marks:

Reviewed by:

CSI
CIVIL SERVICES INC.
CONSULTING ENGINEERS

CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: NX-14

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 30-Sep-96

Contractor: Bechtel Enviromental — Design Strength: 30 psi

Supplier: — Mix Design No.: Sand Cement

Date Cast: 16 Sep 96 — Date Received: 18-Sep-96 — Cylinders made by: BECHTEL — No. Submitted: 2

MATERIAL SOURCE	BATCH DATA - 1 cu.yd.		FIELD TEST DATA	
Cement	Cement		Slump, Ins.	Air, %
F.A.	F.A.		Ticket No.	Truck No.
C.A.	C.A.		Unit Wt.	Time:
A.E.A.	Water		Temp., F: Air -	Conc.
Admix	A.E.A.	Admix	Cubic Yds. Placed	

Location of Pour: Cell 4A (Cell 8)

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-14A	23-Sep-96	7	1	6	250	35			CB
NX-14B	30-Sep-96	14	1	13	300	40			CB

FRACTURE TYPE

Remarks:

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: CON0896

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 20-Jun-96

Contractor: Bechtel Enviromental — Design Strength: 30 PSI

Supplier: — Mix Design No.: Sand Cement

Date Cast: 13-Jun-96 — Date Received: 13-Jun-96 — Cylinders made by: BECHTEL — No. Submitted: 2

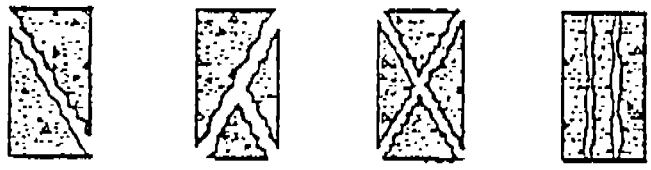
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.		FIELD TEST DATA	
Cement	Cement		Slump, Ins.	Air, %
F.A.	F.A.		Ticket No.	Truck No.
C.A.	C.A.		Unit Wt:	Time:
A.E.A.	Water		Temp., F: Air -	Conc.
Admix.	A.E.A.	Admix.	Cubic Yds. Placed	

Location of Pour: PSC 42 Cell #5 Cell 9

COMPRESSIVE STRENGTH - 6" x 6" x 18" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-896A	20-Jun-96	7	1	6	400	60	1		AR
NX-896B	27-Jun-96	14	1	13	1,100	160	2		AR

FRACTURE TYPE



Remarks: #A Moisture - 22.8%

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42
Report No.: NX-11
Location: Jacksonville, Florida
CSI Project No.:
Architect / Engineer: Bechtel Enviromental
Date: 08-Oct-96
Contractor: Bechtel Enviromental
Design Strength: 30 psi
Supplier:
Mix Design No.: Sand Cement
Date Cast: 10-Sep-96 Date Received: 11-Sep-96 Cylinders made by: BECHTEL No. Submitted: 2

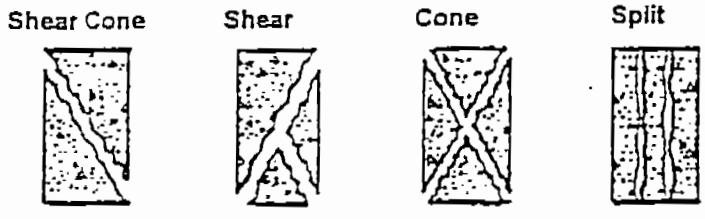
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA
Cement	Cement	Slump, Ins. Air, %
F.A.	F.A.	Ticket No. Truck No.
C.A.	C.A.	Unit Wt: Time:
A.E.A.	Water	Temp., F: Air - Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed

Location of Pour: Cell 6 (Cell 10)

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-11A	17-Sep-96	7	1	6	Unable to break				
NX-11B	24-Sep-96	14	1	13	Unable to break				
NX-11C	01-Oct-96	21	1	20	Wait 21 days unable to cap, to weak.				

FRACTURE TYPE



Remarks:

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: Cell

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 30-Oct-96

Contractor: Bechtel Enviromental — Design Strength: 30 psi

Supplier: — Mix Design No.: Sand Cement

Date Cast: 25-Oct-96 — Date Received: 28-Oct-96 — Cylinders made by: BECHTEL — No. Submitted: 1

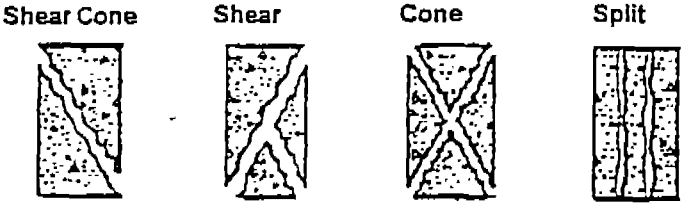
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA
Cement	Cement	Slump, Ins. / Air, %
F.A.	F.A.	Ticket No. / Truck No.
C.A.	C.A.	Unit Wt: / Time:
A.E.A.	Water	Temp., F: Air - / Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed

Location of Pour: Cell 6 Location 1 Cell 10
Core

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
Cell 6 (1)a	30-Oct-96				420	60			CB

FRACTURE TYPE



Remarks

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: NX-13

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 25-Sep-96

Contractor: Bechtel Enviromental — Design Strength: 30 psi

Supplier: — Mix Design No.: Sand Cement

Date Cast: 11-Sep-96 — Date Received: 13-Sep-96 — Cylinders made by: BECHTEL — No. Submitted: 2

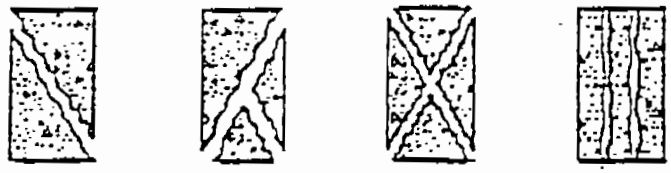
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA
Cement	Cement	Slump. Ins. Air. %
F.A.	F.A.	Ticket No. Truck No.
C.A.	C.A.	Unit Wt: Time:
A.E.A.	Water	Temp. F: Air - Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed

Location of Pour: Cell 6 Location 2 (Cell 10)

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-13A	18-Sep-96	7	1	6	Unable to break				
NX-13B	25-Sep-96	14	1	13	Unable to break				

FRACTURE TYPE



Remarks

Reviewed by

11219

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 | Report No.: NX-13

Location: Jacksonville, Florida | CSI Project No.:

Architect / Engineer: Bechtel Enviromental | Date: 09-Oct-96

Contractor: Bechtel Enviromental | Design Strength: 30 psi

Supplier: | Mix Design No.: Sand Cement

Date Cast: 11-Sep-96 | Date Received: 13-Sep-96 | Cylinders made by: BECHTEL | No. Submitted: 1

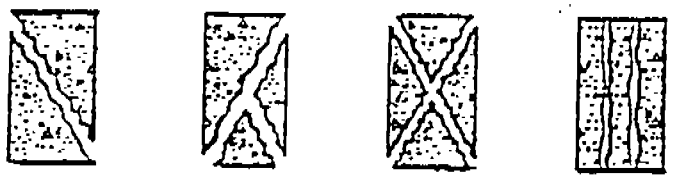
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA	
Cement	Cement	Slump, Ins.	Air, %
F.A.	F.A.	Ticket No.	Truck No.
C.A.	C.A.	Unit Wt:	Time:
A.E.A.	Water	Temp., F: Air -	Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed	

Location of Pour: Cell 6 Location 2 (Cell 10)

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-13(b)A	11-Oct-96	30	1	29	300	40			CB

FRACTURE TYPE



Remarks:

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: NX-16

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 30-Sep-96

Contractor: Bechtel Enviromental — Design Strength: 30 psi

Supplier: — Mix Design No.: Sand Cement

Date Cast: 16-Sep-96 — Date Received: 18-Sep-96 — Cylinders made by: BECHTEL — No. Submitted: 2

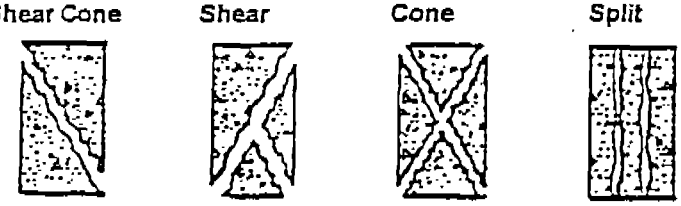
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.		FIELD TEST DATA	
Cement	Cement		Slump, Ins.	Air, %
F.A.	F.A.		Ticket No.	Truck No.
C.A.	C.A.		Unit Wt.	Time:
A.E.A.	Water		Temp., F: Air -	Conc.
Admix.	A.E.A.	Admix.	Cubic Yds. Placed	

Location of Pour: Cell 6 Location 3 (Cell 10)

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-16A	23-Sep-96	7	1	6	200	28			CB
NX-16B	30-Sep-96	14	1	13	230	30			CB

FRACTURE TYPE



Remarks

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: NX

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 09-Oct-96

Contractor: Bechtel Enviromental — Design Strength: 30 psi

Supplier: — Mix Design No.: Sand Cement

Date Cast: 11-Sep-96 — Date Received: 13-Sep-96 — Cylinders made by: BECHTEL — No. Submitted: 2

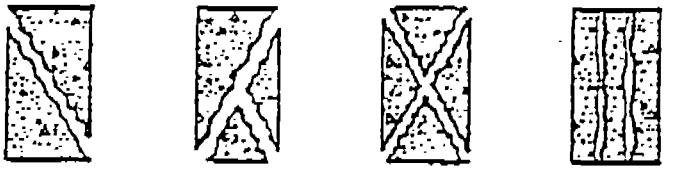
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.		FIELD TEST DATA	
Cement	Cement		Slump. Ins.	Air. %
F.A.	F.A.		Ticket No.	Truck No.
C.A.	C.A.		Unit Wt:	Time:
A.E.A.	Water		Temp., F: Air -	Conc.
Admix.	A.E.A.	Admix	Cubic Yds. Placed	

Location of Pour: Cell 7 (Cell 11)

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-12A	18-Sep-96	7	1	6	Unable to break				
NX-12B	25-Sep-96	14	1	13					
NX-12C	02-Oct-96	21	1	20	400	60	1		CB

FRACTURE TYPE



Remarks:

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: NX-15

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 14-Oct-96

Contractor: Bechtel Enviromental — Design Strength: 30 psi

Supplier: — Mix Design No.: Sand Cement

Date Cast: 16-Sep-96 — Date Received: 18-Sep-96 — Cylinders made by: BECHTEL — No. Submitted: 2

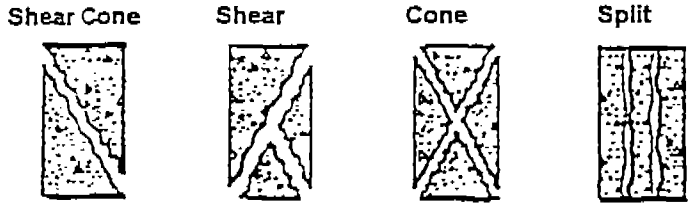
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA	
Cement	Cement	Slump, Ins.	Air, %
F.A.	F.A.	Ticket No.	Truck No.
C.A.	C.A.	Unit Wt:	Time:
A.E.A.	Water	Temp., F: Air -	Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed	

Location of Pour: Cell 7 Location 2 (Cell 11)

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-15A	23-Sep-96	7	1	6	Unable to break				
NX-15B	30-Sep-96	14	1	13	Unable to break				
NX-15C	14-Oct-96	28	1	27	500	70	1		CB

FRACTURE TYPE



Remarks

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: NX-17

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 06-Nov-96

Contractor: Bechtel Enviromental — Design Strength: 30 psi

Supplier: — Mix Design No.: Sand Cement

Date Cast: 23-Oct-96 — Date Received: 28-Oct-96 — Cylinders made by: BECHTEL — No. Submitted: 2

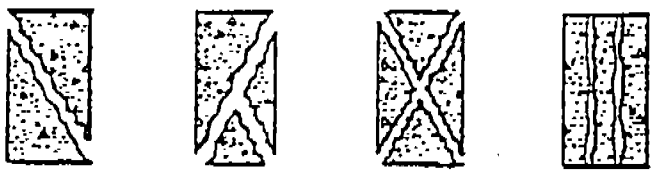
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA
Cement	Cement	Slump, Ins. Air, %
F.A.	F.A.	Ticket No. Truck No.
C.A.	C.A.	Unit Wt: Time:
A.E.A.	Water	Temp., F: Air - Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed

Location of Pour: Cell 12

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-17A	30-Oct-96	7	1	6	160	23			CB
NX-17B	06-Nov-96	14	1	13	220	31			CB

FRACTURE TYPE



Remarks:

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: NX-19

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 25-Nov-96

Contractor: Bechtel Enviromental — Design Strength: 30 psi

Supplier: — Mix Design No.: Sand Cement

Date Cast: 11-Nov-96 — Date Received: 13-Nov-96 — Cylinders made by: BECHTEL — No. Submitted: 2

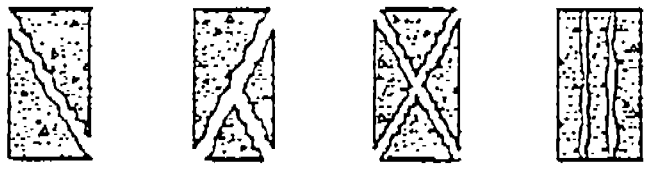
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA	
Cement	Cement	Slump. Ins.	Air, %
F.A.	F.A.	Ticket No.	Truck No.
C.A.	C.A.	Unit Wt:	Time:
A.E.A.	Water	Temp., F: Air -	Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed	

Location of Pour: Cell 12 B & 13A

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-19A	18-Nov-96	7	1	6	See Remarks				
NX-19B	25-Nov-96	14	1	13	300	42			CB

FRACTURE TYPE



Remarks: 1. Unable to break to weak

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 | Report No.: NX-18

Location: Jacksonville, Florida | CSI Project No.:

Architect / Engineer: Bechtel Enviromental | Date: 12-Nov-96

Contractor: Bechtel Enviromental | Design Strength: 30 psi

Supplier: | Mix Design No.: Sand Cement

Date Cast: 05-Nov-96 | Date Received: 07-Nov-96 | Cylinders made by: BECHTEL | No. Submitted: 2

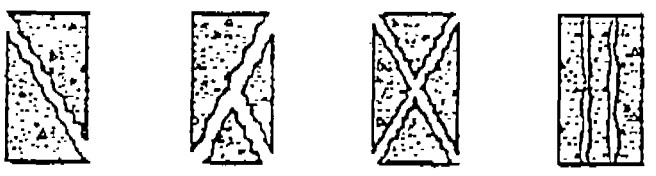
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA	
Cement	Cement	Slump. Ins.	Air, %
F.A.	F.A.	Ticket No.	Truck No.
C.A.	C.A.	Unit Wt:	Time:
A.E.A.	Water	Temp., F: Air -	Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed	

Location of Pour: Cell 12 A & 13B

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-18A	12-Nov-96	7	1	6	See Remarks				
NX-18B	19-Nov-96	14	1	13	225	32			CB

FRACTURE TYPE



Remarks: 1. Unable to break to weak

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: NX-22

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 27-Nov-96

Contractor: Bechtel Enviromental — Design Strength: 30 psi

Supplier: — Mix Design No.: Sand Cement

Date Cast: 13-Nov-96 — Date Received: 15-Nov-96 — Cylinders made by: BECHTEL — No. Submitted: 2

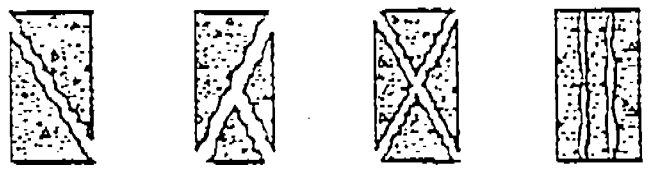
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA	
Cement	Cement	Slump. Ins.	Air, %
F.A.	F.A.	Ticket No.	Truck No.
C.A.	C.A.	Unit Wt:	Time:
A.E.A.	Water	Temp. F: Air -	Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed	

Location of Pour: Cell 13B

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-22A	20-Nov-96	7	1	6	See Remarks				CB
NX-22B	27-Nov-96	14	1	13	450	60			

FRACTURE TYPE



Remarks: Unable to break to weak

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: NX-21

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 27-Nov-96

Contractor: Bechtel Enviromental — Design Strength: 30 psi

Supplier: — Mix Design No.: Sand Cement

Date Cast: 13-Nov-96 — Date Received: 15-Nov-96 — Cylinders made by: BECHTEL — No. Submitted: 2

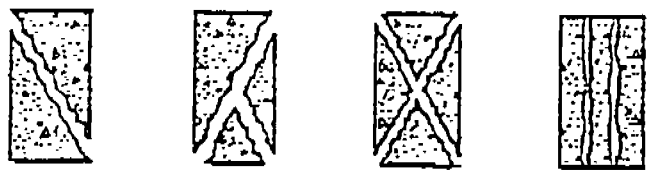
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA	
Cement	Cement	Slump. Ins.	Air, %
F.A.	F.A.	Ticket No.	Truck No.
C.A.	C.A.	Unit Wt:	Time:
A.E.A.	Water	Temp., F: Air -	Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed	

Location of Pour: West End of Cell 13 & 14

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-21A	20-Nov-96	7	1	6	See Remarks				
NX-21B	27-Nov-96	14	1	13	750	106			CB

FRACTURE TYPE



Remarks: Unable to break to weak

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 | Report No.: NX-20

Location: Jacksonville, Florida | CSI Project No.:

Architect / Engineer: Bechtel Enviromental | Date: 26-Nov-96

Contractor: Bechtel Enviromental | Design Strength: 30 psi

Supplier: | Mix Design No.: Sand Cement

Date Cast: 12-Nov-96 | Date Received: 14-Nov-96 | Cylinders made by: BECHTEL | No. Submitted: 2

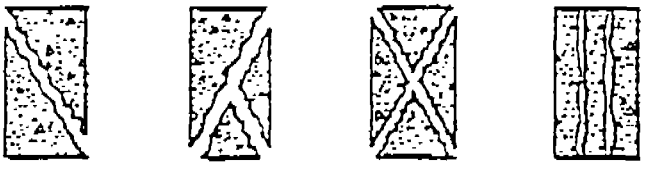
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA
Cement	Cement	Slump, Ins. / Air, %
F.A.	F.A.	Ticket No. / Truck No.
C.A.	C.A.	Unit Wt: / Time:
A.E.A.	Water	Temp., F: Air - / Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed

Location of Pour: Cell 14A

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-20A	19-Nov-96	7	1	6	See Remarks				
NX-20B	26-Nov-96	14	1	13	250	35			CB

FRACTURE TYPE



Remarks: Unable to break to weak

Reviewed by

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: NX-24

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 01-Jan-97

Contractor: Bechtel Enviromental — Design Strength: 30 psi

Supplier: — Mix Design No.: Sand Cement

Date Cast: 18-Dec-96 — Date Received: 20-Dec-96 — Cylinders made by: BECHTEL — No. Submitted: 2

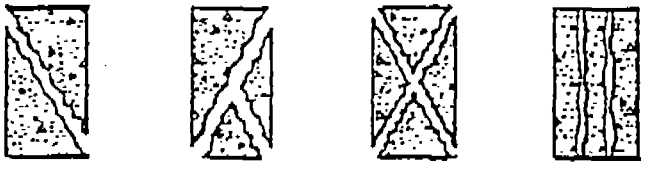
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.		FIELD TEST DATA	
Cement	Cement		Slump. Ins.	Air, %
F.A.	F.A.		Ticket No.	Truck No.
C.A.	C.A.		Unit Wt:	Time:
A.E.A.	Water		Temp., F: Air -	Conc.
Admix.	A.E.A.	Admix.	Cubic Yds. Placed	

Location of Pour: Cell 15

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-24A	25-Dec-96	7	1	6	60	20			LGG
NX-24B	01-Jan-97	14	1	13	600	90			LGG

FRACTURE TYPE



Remarks:

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 | Report No.: NX-25

Location: Jacksonville, Florida | CSI Project No.:

Architect / Engineer: Bechtel Enviromental | Date: 09-Jan-97

Contractor: Bechtel Enviromental | Design Strength: 30 psi

Supplier: | Mix Design No.: Sand Cement

Date Cast: 19-Dec-96 | Date Received: 21-Dec-96 | Cylinders made by: BECHTEL | No. Submitted: 3

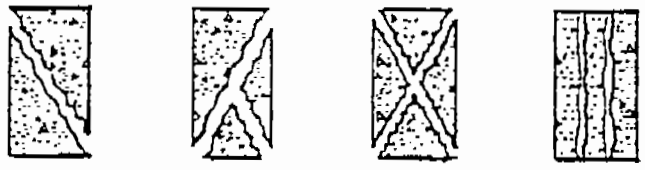
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA	
Cement	Cement	Slump, Ins.	Air, %
F.A.	F.A.	Ticket No.	Truck No.
C.A.	C.A.	Unit Wt:	Time:
A.E.A.	Water	Temp., F: Air -	Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed	

Location of Pour: Cell 16

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-25A	26-Dec-96	7	1	6	70	10			LGG
NX-25B	02-Jan-97	14	1	13	90	10			LGG
NX-25C	09-Jan-97	21	1	20	220	30			CB

FRACTURE TYPE



Remarks:

Reviewed by:

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 | Report No.: NX-26

Location: Jacksonville, Florida | CSI Project No.:

Architect / Engineer: Bechtel Enviromental | Date: 09-Jan-97

Contractor: Bechtel Enviromental | Design Strength: 30 psi

Supplier: | Mix Design No.: Sand Cement

Date Cast: 19-Dec-96 | Date Received: 21-Dec-96 | Cylinders made by: BECHTEL | No. Submitted: 3

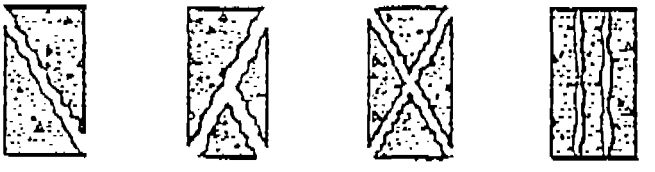
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA	
Cement	Cement	Slump, Ins.	Air, %
F.A.	F.A.	Ticket No.	Truck No.
C.A.	C.A.	Unit Wt:	Time:
A.E.A.	Water	Temp., F: Air -	Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed	

Location of Pour: Cell 17

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-26A	26-Dec-96	7	1	6	60	10			LGG
NX-26B	02-Jan-97	14	1	13	80	10			LGG
NX-26C	09-Jan-97	21	1	20	250	40			CB

FRACTURE TYPE



Remarks:

Reviewed by:

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 | Report No.: CON2796

Location: Jacksonville, Florida | CSI Project No.:

Architect / Engineer: Bechtel Enviromental | Date: 13-Jan-97

Contractor: Bechtel Enviromental | Design Strength: 30 PSI

Supplier: | Mix Design No.:

Date Cast: 30-Dec-96 | Date Received: 31-Dec-96 | Cylinders made by: BECHTEL | No. Submitted: 2

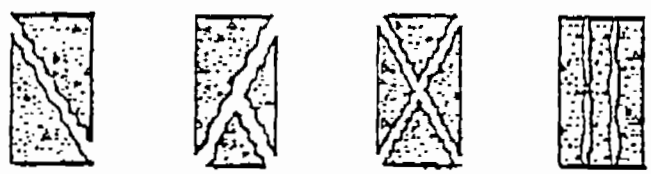
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.		FIELD TEST DATA	
Cement	Cement		Slump. Ins.	Air, %
F.A.	F.A.		Ticket No.	Truck No.
C.A.	C.A.		Unit Wt:	Time:
A.E.A.	Water		Temp., F: Air -	Conc.
Admix.	A.E.A.	Admix.	Cubic Yds. Placed	

Location of Pour: Cell 18

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-2796A	06-Jan-97	7	1	6	200	30	1		LGG
NX-2796B	13-Jan-97	14	1	13	450	60	1		LGG

FRACTURE TYPE



Remarks:

Reviewed by:

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CONSULTING ENGINEERS

CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: CON28

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 13-Jan-97

Contractor: Bechtel Enviromental — Design Strength: 30 PSI

Supplier: — Mix Design No.:

Date Cast: 30-Dec-96 — Date Received: 31-Dec-96 — Cylinders made by: BECHTEL — No. Submitted: 2

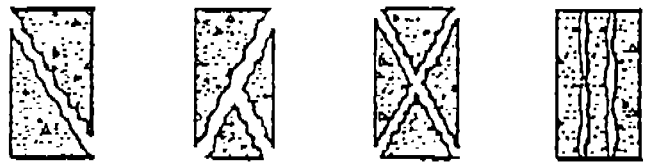
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA
Cement	Cement	Slump, Ins. / Air, %
F.A.	F.A.	Ticket No. / Truck No.
C.A.	C.A.	Unit Wt: / Time:
A.E.A.	Water	Temp., F: Air - / Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed

Location of Pour: Cell 19A

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-2896A	06-Jan-97	7	1	6	1,000	140	1		LGG
NX-2896B	13-Jan-97	14	1	13	2,500	350	1		CB

FRACTURE TYPE



Remarks:

Reviewed by:

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CIVIL SERVICES INC.
CONSULTING ENGINEERS

CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 | Report No.: CON2996

Location: Jacksonville, Florida | CSI Project No.:

Architect / Engineer: Bechtel Enviromental | Date: 14-Jan-97

Contractor: Bechtel Enviromental | Design Strength: 30 PSI

Supplier: | Mix Design No.:

Date Cast: 31-Dec-96 | Date Received: 01-Jan-97 | Cylinders made by: BECHTEL | No. Submitted: 2

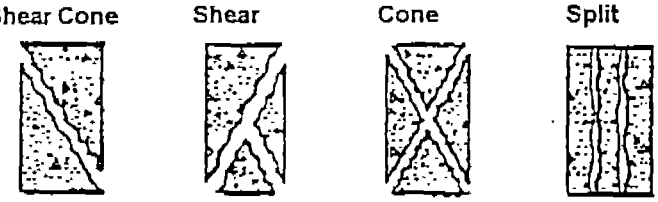
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.		FIELD TEST DATA	
Cement	Cement		Slump, Ins.	Air, %
F.A.	F.A.		Ticket No.	Truck No.
C.A.	C.A.		Unit Wt:	Time:
A.E.A.	Water		Temp., F: Air -	Conc.
Admix.	A.E.A.	Admix.	Cubic Yds. Placed	

Location of Pour: Cell 19B and Cell 20B

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-2996A	07-Jan-97	7	1	6	200	30	1		LGG
NX-2996B	14-Jan-97	14	1	13	450	60	1		CB

FRACTURE TYPE



Remarks:

Reviewed by:

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CONSULTING ENGINEERS

CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42
Location: Jacksonville, Florida
Architect / Engineer: Bechtel Enviromental
Contractor: Bechtel Enviromental
Supplier:
Date Cast: 16-Dec-96 Date Received: 18-Dec-96 Cylinders made by: BECHTEL

Report No.: NX-23
CSI Project No.:
Date: 06-Jan-97
Design Strength: 30 psi
Mix Design No.: Sand Cement
No. Submitted: 3

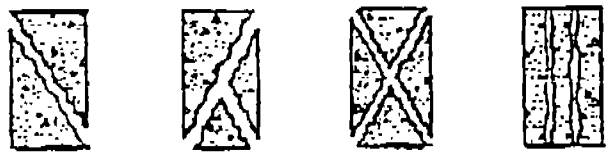
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA
Cement	Cement	Slump, Ins. / Air, %
F.A.	F.A.	Ticket No. / Truck No.
C.A.	C.A.	Unit Wt. / Time:
A.E.A.	Water	Temp. F: Air - / Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed

Location of Pour: Cell 20 A

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-23A	23-Dec-96	7	1	6	50	10			LG
NX-23B	30-Dec-96	14	1	13	90	10			LG
NX-23C	06-Jan-97	21	1	20	300	51			LGG

FRACTURE TYPE



Remarks:

Reviewed by:

CSI
CIVIL SERVICES INC.
CONSULTING ENGINEERS

CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 | Report No.: CON30
Location: Jacksonville, Florida | CSI Project No.:
Architect / Engineer: Bechtel Enviromental | Date: 27-Jan-97
Contractor: Bechtel Enviromental | Design Strength: 30 PSI
Supplier: | Mix Design No.:
Date Cast: 13-Jan-97 | Date Received: 14-Jan-97 | Cylinders made by: BECHTEL | No. Submitted: 2

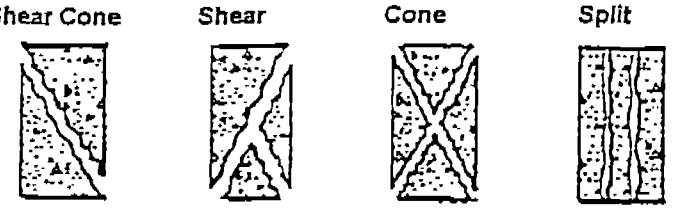
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.		FIELD TEST DATA	
Cement	Cement		Slump, Ins.	Air, %
F.A.	F.A.		Ticket No.	Truck No.
C.A.	C.A.		Unit Wt.	Time:
A.E.A.	Water		Temp., F: Air -	Conc.
Admix.	A.E.A.	Admix.	Cubic Yds. Placed	

Location of Pour: Cell 21

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-3096A	20-Jan-97	7	1	6	1,000	140	1		LGG
NX-3096B	27-Jan-97	14	1	13	1,500	210	1		LGG

FRACTURE TYPE



Remarks:

Reviewed by: C. Starling

CSI
CIVIL SERVICES INC.
CONSULTING ENGINEERS

CONCRETE STRENGTH REPORT

Project	NAS Jax PSC 42	Report No.	NX34
Location	Jacksonville, Florida	CSI Project No.	
Architect / Engineer	Bechtel Enviromental	Date	31-Jan-97
Contractor	Bechtel Enviromental	Design Strength	30 PSI
Supplier		Mix Design No.	

Date Cast 17-Jan-97 Date Received 18-Jan-97 Cylinders made by BECHTEL No. Submitted 2

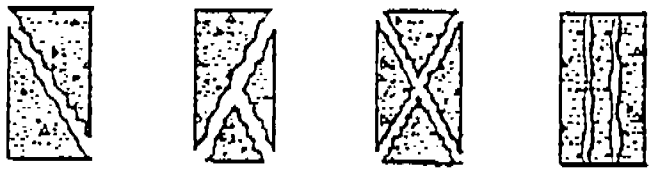
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA
Cement	Cement	Slump, Ins. Air, %
F.A.	F.A.	Ticket No. Truck No.
C.A.	C.A.	Unit Wt: Time:
A.E.A.	Water	Temp., F: Air - Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed

Location of Pour Cell 21 RT

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-3496A	24-Jan-97	7	1	6	7,000	990	1		LGG
NX-3496B	31-Jan-97	14	1	13	8,200	1160	1		FA

FRACTURE TYPE



Remarks

Reviewed by

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CONSULTING ENGINEERS

CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 | Report No.: CON31
Location: Jacksonville, Florida | CSI Project No.:
Architect / Engineer: Bechtel Enviromental | Date: 28-Jan-97
Contractor: Bechtel Enviromental | Design Strength: 30 PSI
Supplier: | Mix Design No.:
Date Cast: 14-Jan-97 | Date Received: 15-Jan-97 | Cylinders made by: BECHTEL | No. Submitted: 2

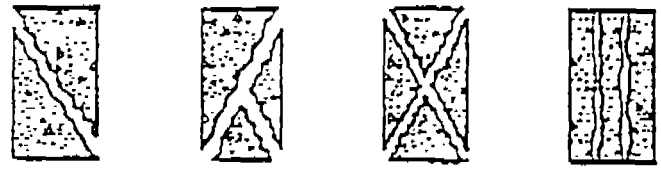
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA
Cement	Cement	Slump. Ins. Air. %
F.A.	F.A.	Ticket No. Truck No.
C.A.	C.A.	Unit Wt: Time:
A.E.A.	Water	Temp., F: Air - Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed

Location of Pour: Cell 22

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-3196A	21-Jan-97	7	1	6	500	70	1		LGG
NX-3196B	28-Jan-97	14	1	13	600	80	1		LGG

FRACTURE TYPE



Remarks:

Reviewed by:

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 | Report No.: NX37[redacted]

Location: Jacksonville, Florida | CSI Project No.:

Architect / Engineer: Bechtel Enviromental | Date: 29-Jan-97

Contractor: Bechtel Enviromental | Design Strength: 30 PSI

Supplier: | Mix Design No.:

Date Cast: 15-Jan-97 | Date Received: 16-Jan-97 | Cylinders made by: BECHTEL | No. Submitted: 2

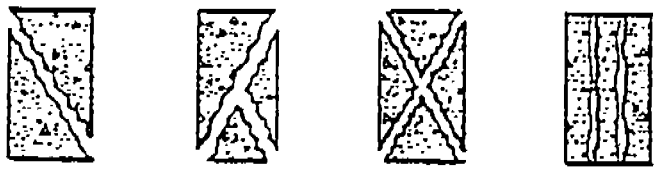
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA
Cement	Cement	Slump, Ins. Air, %
F.A.	F.A.	Ticket No. Truck No.
C.A.	C.A.	Unit Wt. Time:
A.E.A.	Water	Temp., F: Air - Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed

Location of Pour: Cell 23

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-3296A	22-Jan-97	7	1	6	800	110	1		LGG
NX-3296B	29-Jan-97	14	1	13	1,000	140	1		LGG

FRACTURE TYPE



Remarks:

Reviewed by:

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: NX33

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 29-Jan-97

Contractor: Bechtel Enviromental — Design Strength: 30 PSI

Supplier: — Mix Design No.:

Date Cast: 15-Jan-97 — Date Received: 16-Jan-97 — Cylinders made by: BECHTEL — No. Submitted: 2

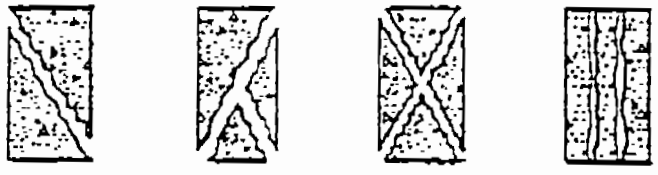
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA
Cement	Cement	Slump, Ins. Air, %
F.A.	F.A.	Ticket No. Truck No.
C.A.	C.A.	Unit Wt: Time:
A.E.A.	Water	Temp., F: Air - Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed

Location of Pour: Cell 24

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-3396A	22-Jan-97	7	1	6	200	30	1		LGG
NX-3396B	29-Jan-97	14	1	13	300	40	1		LGG

FRACTURE TYPE



Remarks:

Reviewed by:

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CONSULTING ENGINEERS

CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: NX37

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 30-Jan-97

Contractor: Bechtel Enviromental — Design Strength: 30 PSI

Supplier: — Mix Design No.:

Date Cast: 16-Jan-97 — Date Received: 17-Jan-97 — Cylinders made by: BECHTEL — No. Submitted: 2

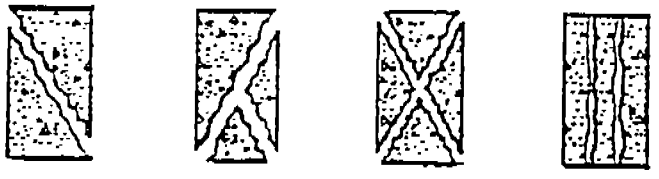
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA	
Cement	Cement	Slump. Ins.	Air, %
F.A.	F.A.	Ticket No.	Truck No.
C.A.	C.A.	Unit Wt:	Time:
A.E.A.	Water	Temp., F: Air -	Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed	

Location of Pour: Cell 25A

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-3796A	23-Jan-97	7	1	6	700	100	1		FA
NX-3796B	30-Jan-97	14	1	13	750	110	2		LGG

FRACTURE TYPE



Remarks:

Reviewed by:

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CONSULTING ENGINEERS

CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: NX38

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 30-Jan-97

Contractor: Bechtel Enviromental — Design Strength: 30 PSI

Supplier: — Mix Design No.:

Date Cast: 16-Jan-97 — Date Received: 17-Jan-97 — Cylinders made by: BECHTEL — No. Submitted: 2

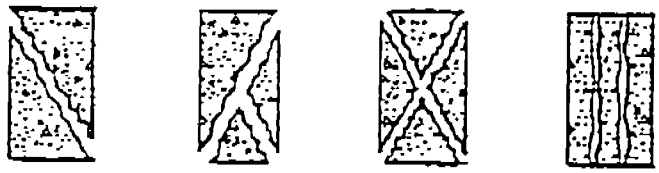
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA
Cement	Cement	Slump, Ins. / Air, %
F.A.	F.A.	Ticket No. / Truck No.
C.A.	C.A.	Unit Wt: / Time:
A.E.A.	Water	Temp., F: Air - / Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed

Location of Pour: Cell 25B

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-3896A	23-Jan-97	7	1	6	200	30	1		FA
NX-3896B	30-Jan-97	14	1	13	400	60	2		LGG

FRACTURE TYPE



Remarks

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 | Report No.: NX36

Location: Jacksonville, Florida | CSI Project No.:

Architect / Engineer: Bechtel Enviromental | Date: 04-Feb-97

Contractor: Bechtel Enviromental | Design Strength: 30 PSI

Supplier: | Mix Design No.:

Date Cast: 21-Jan-97 | Date Received: 22-Jan-97 | Cylinders made by: BECHTEL | No. Submitted: 2

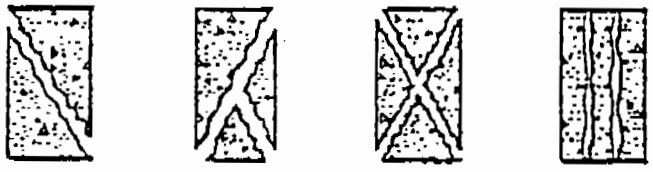
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA	
Cement	Cement	Slump, Ins.	Air, %
F.A.	F.A.	Ticket No.	Truck No.
C.A.	C.A.	Unit Wt:	Time:
A.E.A.	Water	Temp., F: Air -	Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed	

Location of Pour: Cell 26 East

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-3696A	28-Jan-97	7	1	6	500	70	1		LGG
NX-3696B	04-Feb-97	14	1	13	500	70	1		LGG

FRACTURE TYPE



Remarks:

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 | Report No.: NX35

Location: Jacksonville, Florida | CSI Project No.:

Architect / Engineer: Bechtel Enviromental | Date: 03-Feb-97

Contractor: Bechtel Enviromental | Design Strength: 30 PSI

Supplier: | Mix Design No.:

Date Cast: 20-Jan-97 | Date Received: 21-Jan-97 | Cylinders made by: BECHTEL | No. Submitted: 2

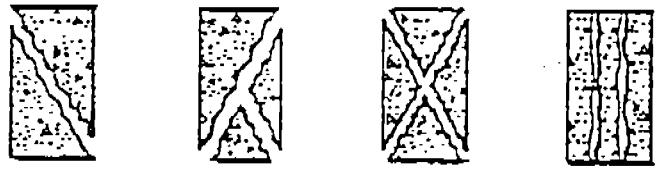
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA	
Cement	Cement	Slump, Ins.	Air, %
F.A.	F.A.	Ticket No.	Truck No.
C.A.	C.A.	Unit Wt:	Time:
A.E.A.	Water	Temp., F: Air -	Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed	

Location of Pour: Cell 26A

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-3596A	27-Jan-97	7	1	6	3,200	450	1		LGG
NX-3596B	03-Feb-97	14	1	13	4,500	640	1		FA

FRACTURE TYPE



Remarks:

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CONCRETE STRENGTH REPORT

Project	NAS Jax PSC 42	Report No.	NX3[redacted]
Location	Jacksonville, Florida	CSI Project No.	
Architect / Engineer	Bechtel Enviromental	Date	06-Feb-97
Contractor	Bechtel Enviromental	Design Strength	30 PSI
Supplier		Mix Design No.	

Date Cast: 23-Jan-97 Date Received: 24-Jan-97 Cylinders made by: BECHTEL No. Submitted: 2

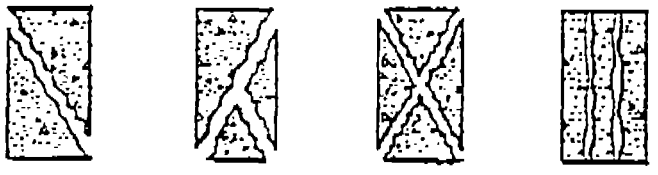
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.		FIELD TEST DATA	
Cement	Cement		Slump, Ins.	Air, %
F.A.	F.A.		Ticket No.	Truck No.
C.A.	C.A.		Unit Wt.	Time:
A.E.A.	Water		Temp., F: Air -	Conc.
Admix.	A.E.A.	Admix.	Cubic Yds. Placed	

Location of Pour: Cell 27

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-3996A	30-Jan-97	7	1	6	1,000	140	1		LGG
NX-3996B	06-Feb-97	14	1	13	2,100	300	1		FA

FRACTURE TYPE



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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: NX-42

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 06-Feb-97

Contractor: Bechtel Enviromental — Design Strength: 50 PSI

Supplier: — Mix Design No.:

Date Cast: 30-Jan-97 — Date Received: 01-Feb-97 — Cylinders made by: BECHTEL — No. Submitted: 2

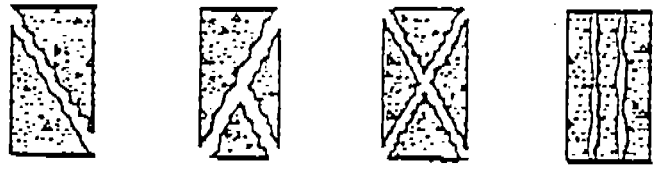
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA
Cement	Cement	Slump, Ins. / Air, %
F.A.	F.A.	Ticket No. / Truck No.
C.A.	C.A.	Unit Wt: / Time:
A.E.A.	Water	Temp., F: Air - / Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed

Location of Pour: Cell 2B

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-42-96A	06-Feb-97	7	1	6	1,500	210			FA
NX-42-96B	13-Feb-97	14	1	13					

FRACTURE TYPE



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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 | Report No.: NX-4

Location: Jacksonville, Florida | CSI Project No.:

Architect / Engineer: Bechtel Enviromental | Date: 19-Feb-97

Contractor: Bechtel Enviromental | Design Strength: 50 PSI

Supplier: | Mix Design No.:

Date Cast: 05-Feb-97 | Date Received: 07-Feb-97 | Cylinders made by: BECHTEL | No. Submitted: 2

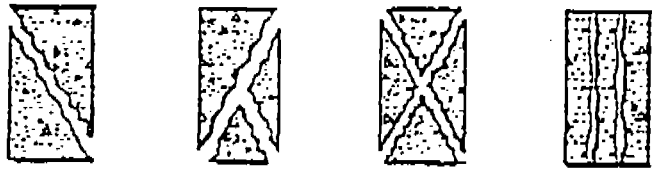
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.		FIELD TEST DATA	
Cement	Cement		Slump. Ins.	Air, %
F.A.	F.A.		Ticket No.	Truck No.
C.A.	C.A.		Unit Wt:	Time:
A.E.A.	Water		Temp., F: Air -	Conc.
Admix.	A.E.A.	Admix.	Cubic Yds. Placed	

Location of Pour: Cell 29

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-45-96A	12-Feb-97	7	1	6	100	10			LGG
NX-45-96B	19-Feb-97	14	1	13	400	60			LGG

FRACTURE TYPE



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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: NX-44

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 19-Feb-97

Contractor: Bechtel Enviromental — Design Strength: 50 PSI

Supplier: — Mix Design No.:

Date Cast: 05-Feb-97 — Date Received: 07-Feb-97 — Cylinders made by: BECHTEL — No. Submitted: 2

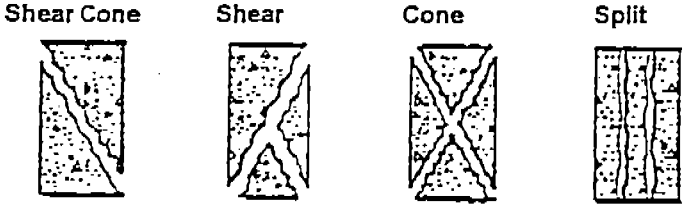
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA
Cement	Cement	Slump, Ins. / Air, %
F.A.	F.A.	Ticket No. / Truck No.
C.A.	C.A.	Unit Wt: / Time:
A.E.A.	Water	Temp., F: Air - / Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed

Location of Pour: Cell 30

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-44-96A	12-Feb-97	7	1	6	100	10			LGG
NX-44-96B	19-Feb-97	14	1	13	350	50			FA

FRACTURE TYPE



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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 | Report No.: NX-43

Location: Jacksonville, Florida | CSI Project No.:

Architect / Engineer: Bechtel Enviromental | Date: 18-Feb-97

Contractor: Bechtel Enviromental | Design Strength: 50 PSI

Supplier: | Mix Design No.:

Date Cast: 04-Feb-97 | Date Received: 06-Feb-97 | Cylinders made by: BECHTEL | No. Submitted: 2

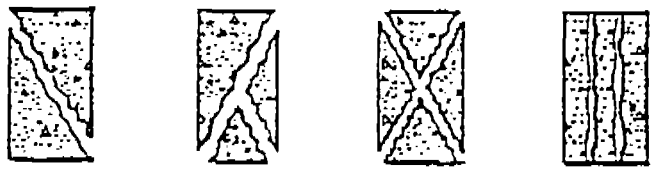
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA
Cement	Cement	Slump, Ins. / Air, %
F.A.	F.A.	Ticket No. / Truck No.
C.A.	C.A.	Unit Wt: / Time:
A.E.A.	Water	Temp., F: Air - / Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed

Location of Pour: Cell 31

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-43-96A	11-Feb-97	7	1	6	300	40			LGG
NX-43-96B	18-Feb-97	14	1	13	500	70			FA

FRACTURE TYPE



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CONCRETE STRENGTH REPORT

Project	NAS Jax PSC 42	Report No.	NX-41
Location	Jacksonville, Florida	CSI Project No.	
Architect / Engineer	Bechtel Enviromental	Date	04-Feb-97
Contractor	Bechtel Enviromental	Design Strength	50 PSI
Supplier		Mix Design No.	

Date Cast 28-Jan-97 Date Received 30-Jan-97 Cylinders made by BECHTEL No. Submitted 2

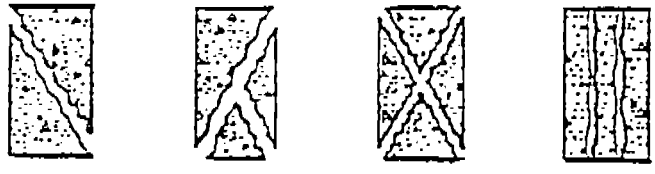
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA	
Cement	Cement	Slump. Ins.	Air. %
F.A.	F.A.	Ticket No.	Truck No.
C.A.	C.A.	Unit Wt:	Time:
A.E.A.	Water	Temp., F: Air -	Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed	

Location of Pour Cell 32

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-41-96A	04-Feb-97	7	1	6	700	100			LGG
NX-41-96B	11-Feb-97	14	1	13	800	110			LGG

FRACTURE TYPE



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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 | Report No.: NX4[redacted]

Location: Jacksonville, Florida | CSI Project No.:

Architect / Engineer: Bechtel Enviromental | Date: 10-Feb-97

Contractor: Bechtel Enviromental | Design Strength: 30 PSi

Supplier: | Mix Design No.:

Date Cast: 27-Jan-97 | Date Received: 28-Jan-97 | Cylinders made by: BECHTEL | No. Submitted: 2

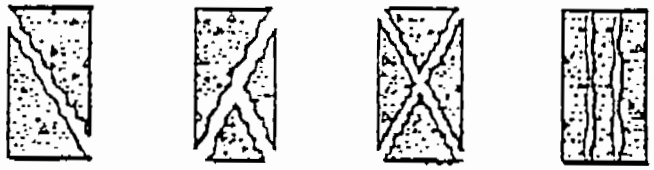
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.		FIELD TEST DATA	
Cement	Cement		Slump. Ins.	Air. %
F.A.	F.A.		Ticket No.	Truck No.
C.A.	C.A.		Unit Wt:	Time:
A.E.A.	Water		Temp., F: Air -	Conc.
Admix.	A.E.A.	Admix.	Cubic Yds. Placed	

Location of Pour: Cell 33

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-4096A	03-Feb-97	7	1	6	500	70	1		FA
NX-4096B	10-Feb-97	14	1	13	800	110	1		FA

FRACTURE TYPE



Remarks:

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: NX-45

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 25-Feb-97

Contractor: Bechtel Enviromental — Design Strength: 50 PSI

Supplier: — Mix Design No.:

Date Cast: 11-Feb-97 — Date Received: 13-Feb-97 — Cylinders made by: BECHTEL — No. Submitted: 2

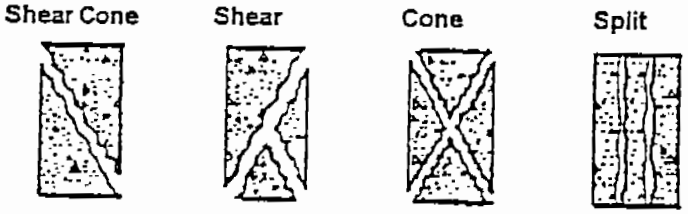
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.		FIELD TEST DATA	
Cement	Cement		Slump, Ins.	Air, %
F.A.	F.A.		Ticket No.	Truck No.
C.A.	C.A.		Unit Wt:	Time:
A.E.A.	Water		Temp., F: Air -	Conc.
Admix.	A.E.A.	Admix.	Cubic Yds. Placed	

Location of Pour: Cell 34

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-46-96A	18-Feb-97	7	1	6	2,000	280			TA
NX-46-96B	25-Feb-97	14	1	13	3,000	420			TA

FRACTURE TYPE



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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 | Report No.: NX-47

Location: Jacksonville, Florida | CSI Project No.:

Architect / Engineer: Bechtel Enviromental | Date: 04-Mar-97

Contractor: Bechtel Enviromental | Design Strength: 30 PSI

Supplier: | Mix Design No.:

Date Cast: 18-Feb-97 | Date Received: 20-Feb-97 | Cylinders made by: BECHTEL | No. Submitted: 2

MATERIAL SOURCE	BATCH DATA - 1 cu.yd.		FIELD TEST DATA	
Cement	Cement		Slump, Ins.	Air, %
F.A.	F.A.		Ticket No.	Truck No.
C.A.	C.A.		Unit Wt.	Time:
A.E.A.	Water		Temp., F: Air -	Conc.
Admix.	A.E.A.	Admix.	Cubic Yds. Placed	

Location of Pour: Cell 35

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-47-96A	25-Feb-97	7	1	6	350	50	1		FA
NX-47-96B	04-Mar-97	14	1	13	1,000	140	1		TA

FRACTURE TYPE

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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 | Report No.: NX-48

Location: Jacksonville, Florida | CSI Project No.:

Architect / Engineer: Bechtel Enviromental | Date: 05-Mar-97

Contractor: Bechtel Enviromental | Design Strength: 30 PSI

Supplier: | Mix Design No.:

Date Cast: 19-Feb-97 | Date Received: 21-Feb-97 | Cylinders made by: BECHTEL | No. Submitted: 2

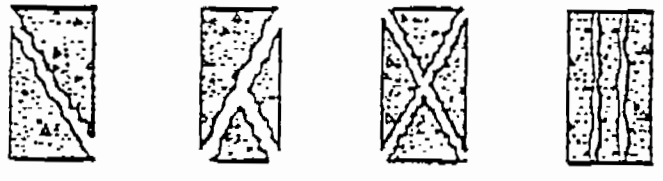
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA
Cement	Cement	Slump, Ins. / Air, %
F.A.	F.A.	Ticket No. / Truck No.
C.A.	C.A.	Unit Wt: / Time:
A.E.A.	Water	Temp., F: Air - / Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed

Location of Pour: Cell 36

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-48-96A	26-Feb-97	7	1	6	700	100	1		FA
NX-48-96B	05-Mar-97	14	1	13	1,000	140	1		TA

FRACTURE TYPE



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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: NX-49

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 06-Mar-97

Contractor: Bechtel Enviromental — Design Strength: 30 PSI

Supplier: — Mix Design No.:

Date Cast: 20-Feb-97 — Date Received: 22-Feb-97 — Cylinders made by: BECHTEL — No. Submitted: 2

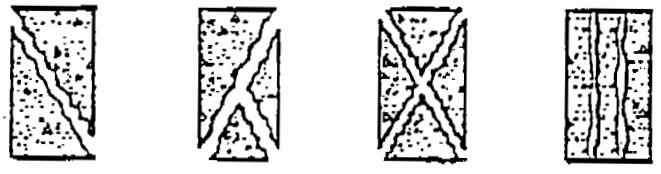
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.		FIELD TEST DATA	
Cement	Cement		Slump. Ins.	Air, %
F.A.	F.A.		Ticket No.	Truck No.
C.A.	C.A.		Unit Wt:	Time:
A.E.A.	Water		Temp., F: Air -	Conc.
Admix.	A.E.A.	Admix.	Cubic Yds. Placed	

Location of Pour: Cell 37

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-49-96A	27-Feb-97	7	1	6	1,000	140	1		TA
NX-49-96B	06-Mar-97	14	1	13	1,700	240	2		TA

FRACTURE TYPE



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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: NX-50

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 10-Mar-97

Contractor: Bechtel Enviromental — Design Strength: 50 PSI

Supplier: — Mix Design No.:

Date Cast: 24-Feb-97 — Date Received: 26-Feb-97 — Cylinders made by: BECHTEL — No. Submitted: 2

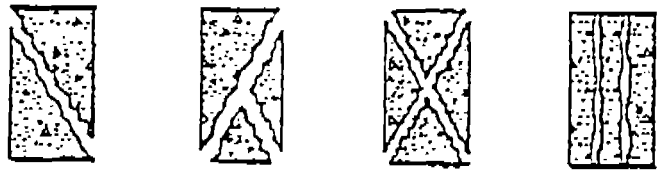
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA
Cement	Cement	Slump, Ins. / Air, %
F.A.	F.A.	Ticket No. / Truck No.
C.A.	C.A.	Unit Wt: / Time:
A.E.A.	Water	Temp., F: Air - / Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed

Location of Pour: Cell 38

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-50-96A	03-Mar-97	7	1	6	300	40	2		FA
NX-50-96B	10-Mar-97	14	1	13	800	110			CS

FRACTURE TYPE



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CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 | Report No.: NX-5
Location: Jacksonville, Florida | CSI Project No.:
Architect / Engineer: Bechtel Enviromental | Date: 09-Mar-97
Contractor: Bechtel Enviromental | Design Strength: 30 PSI
Supplier: | Mix Design No.:
Date Cast: 24-Feb-97 | Date Received: 26-Feb-97 | Cylinders made by: BECHTEL | No. Submitted: 2

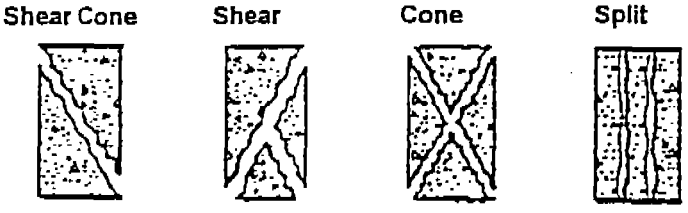
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.		FIELD TEST DATA	
Cement	Cement		Slump, Ins.	Air, %
F.A.	F.A.		Ticket No.	Truck No.
C.A.	C.A.		Unit Wt.	Time:
A.E.A.	Water		Temp., F: Air -	Conc.
Admix.	A.E.A.	Admix.	Cubic Yds. Placed	

Location of Pour: Cell 39

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-51-96A	03-Mar-97	7	1	6	90	10			FA
NX-51-96B	09-Mar-97	13	1	12	300	40			CS

FRACTURE TYPE



Remarks: Contractor requested a 13 day break.

RECEIVED
MAR 13 1997
V. HERMANN BAUER

Reviewed by

CSI
CIVIL SERVICES INC.
CONSULTING ENGINEERS

CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 — Report No.: NX-52

Location: Jacksonville, Florida — CSI Project No.:

Architect / Engineer: Bechtel Enviromental — Date: 09-Mar-97

Contractor: Bechtel Enviromental — Design Strength: 30 psi

Supplier: — Mix Design No.: -

Date Cast: 23-Feb-97 — Date Received: 25-Feb-97 — Cylinders made by: BECHTEL — No. Submitted: 2

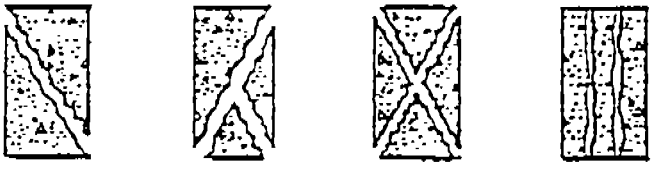
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.		FIELD TEST DATA	
Cement	Cement		Slump. Ins.	Air. %
F.A.	F.A.		Ticket No.	Truck No.
C.A.	C.A.		Unit Wt:	Time:
A.E.A.	Water		Temp., F: Air -	Conc.
Admix.	A.E.A.	Admix.	Cubic Yds. Placed	

Location of Pour: Cell 40

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-52-96A	02-Mar-97	7	1	6	300	40	2		FA
NX-52-96B	09-Mar-97	14	1	13	450	60	2		CS

FRACTURE TYPE



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CIVIL SERVICES INC.
CONSULTING ENGINEERS

CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42
Location: Jacksonville, Florida
Architect / Engineer: Bechtel Enviromental
Contractor: Bechtel Enviromental
Supplier:
Date Cast: 26-Feb-97 Date Received: 04-Mar-97 Cylinders made by: BECHTEL

Report No.: NX-53
CSI Project No.:
Date: 10-Mar-97
Design Strength: 30
Mix Design No.: -
No. Submitted: 2

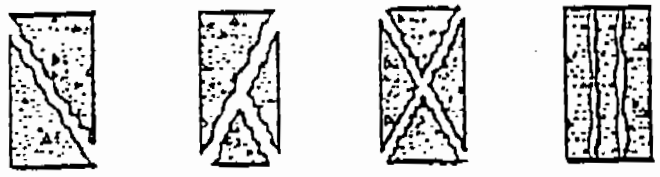
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA	
Cement	Cement	Slump, ins.	Air, %
F.A.	F.A.	Ticket No.	Truck No.
C.A.	C.A.	Unit Wt.	Time:
A.E.A.	Water	Temp., F: Air -	Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed	

Location of Pour: Cell 41

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-53-96A	05-Mar-97	7	1	6	700	100	2		TA
NX-53-96B	10-Mar-97	12	1	11	800	110	3		CS

FRACTURE TYPE



Remarks: Contractor requested a 12 day break.

RECEIVED
MAR 13 1997
V. HERMANN BAUER

Reviewed by

CSI
CIVIL SERVICES INC.
CONSULTING ENGINEERS

CONCRETE STRENGTH REPORT

Project: NAS Jax PSC 42 | Report No.: NX-54
Location: Jacksonville, Florida | CSI Project No.:
Architect / Engineer: Bechtel Enviromental | Date: 17-Mar-97
Contractor: Bechtel Enviromental | Design Strength: 30
Supplier: | Mix Design No.: -
Date Cast: 03-Mar-97 | Date Received: 04-Mar-97 | Cylinders made by: BECHTEL | No. Submitted: 2

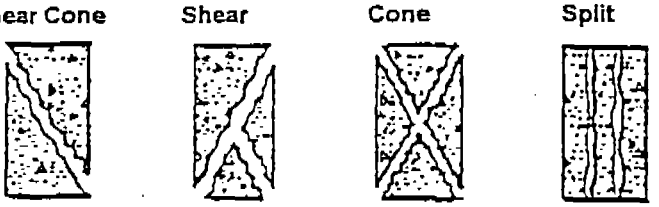
MATERIAL SOURCE	BATCH DATA - 1 cu.yd.	FIELD TEST DATA
Cement	Cement	Slump, Ins. Air, %
F.A.	F.A.	Ticket No. Truck No.
C.A.	C.A.	Unit Wt: Time:
A.E.A.	Water	Temp., F: Air - Conc.
Admix.	A.E.A. Admix.	Cubic Yds. Placed

Location of Pour: Cell 42

COMPRESSIVE STRENGTH - 3" x 6" SPECIMENS

Cylinder No.	Test Date	Age (days)	Curing (days) Field	Curing (days) Lab	Total Load (lbs.)	Compressive Strength (psi)	Fracture Type	Aggregate Fracture	Tested by
NX-54-96A	10-Mar-97	7	1	6	280	40			CS
NX-54-96B	15-Mar-97	14	1	13					

FRACTURE TYPE



Remarks: Contractor request if 7 day cylinder has a passing break - Do not break 14 day.

RECEIVED
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V. HERMANN BAUER

Reviewed by

APPENDIX D

TOXICITY CHARACTERISTIC LEACHING PROCEDURE SAMPLING RESULTS

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00514

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 65275T

Matrix (soil/water): WATER Lab Sample ID: 9605275-01

Level (low/med): LOW__ Date Received: 05/16/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.9	U		P
7440-43-9	Cadmium	0.10	U		P
7440-47-3	Chromium	64.9			P
7439-92-1	Lead	8.6			P
7440-02-0	Nickel	122			P
7440-22-4	Silver	2.5	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

Cell 1

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00517SOL

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 65456T

Matrix (soil/water): WATER Lab Sample ID: 9605456-01

Level (low/med): LOW__ Date Received: 05/28/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.29	B		P
7440-47-3	Chromium	63.7			P
7439-92-1	Lead	7.9			P
7440-02-0	Nickel	123			P
7440-22-4	Silver	2.5	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

NAVY RAC PROJECT 22567-206

BECHTEL ID NUMBER:
001-0205-002-01

SC/PO	SEQ	SHT	SUBMTL

A
(Cell 2)

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00516

Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 65372T

Matrix (soil/water): WATER Lab Sample ID: 9605372-01

Level (low/med): LOW__ Date Received: 05/22/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	11.4			P
7440-43-9	Cadmium	0.94	B		P
7440-47-3	Chromium	52.4			P
7439-92-1	Lead	30.7			P
7440-02-0	Nickel	190			P
7440-22-4	Silver	2.5	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

NAVY RAC PROJECT 22567-206

BECHTEL ID NUMBER:
001-0203-002-01

SC/PO	SEQ	SHT	SUBMTL

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00522

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 66264T

Matrix (soil/water): WATER Lab Sample ID: 9606264-02

Level (low/med): LOW__ Date Received: 06/14/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.20	U		P
7440-47-3	Chromium	71.3			P
7439-92-1	Lead	5.7			P
7440-02-0	Nickel	209			P
7440-22-4	Silver	1.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

NAVY RAC PROJECT 22567-206

BECHTEL ID NUMBER:
001-0208-002-01

SC/PO	SEQ	SHT	SUBMTL

007

CELL 3 DUPLICATE

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00519

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 66092T

Matrix (soil/water): WATER Lab Sample ID: 9606092-02

Level (low/med): LOW__ Date Received: 06/06/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.30	B		P
7440-47-3	Chromium	29.7			P
7439-92-1	Lead	7.1			P
7440-02-0	Nickel	179			P
7440-22-4	Silver	1.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

_____

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NAVY RAC PROJECT 22567-206

BECHTEL ID NUMBER:
001-0206-002-01

SC/PO SEQ SHT SUBMTL

5

Cell 4

4

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00518

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 66092T

Matrix (soil/water): WATER Lab Sample ID: 9606092-01

Level (low/med): LOW__ Date Received: 06/06/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.62	B		P
7440-47-3	Chromium	138			P
7439-92-1	Lead	8.0			P
7440-02-0	Nickel	145			P
7440-22-4	Silver	1.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

NAVY RAC PROJECT 22567-206

BECHTEL ID NUMBER:
001-0206-002-01

SC/PO . SEQ SHT SUBMTL

4

Cells

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00521

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 66264T

Matrix (soil/water): WATER Lab Sample ID: 9606264-01

Level (low/med): LOW__ Date Received: 06/14/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.20	U		P
7440-47-3	Chromium	11.7			P
7439-92-1	Lead	6.0			P
7440-02-0	Nickel	169			P
7440-22-4	Silver	1.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

NAVY RAC PROJECT 22567-206

BECHTEL ID NUMBER:

001-0208-002-01

SC/PO SEQ SHT SUBMTL

006

Cell6 6

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00520

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 66092T

Matrix (soil/water): WATER Lab Sample ID: 9606092-03

Level (low/med): LOW__ Date Received: 06/06/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.50	B		P
7440-47-3	Chromium	27.5			P
7439-92-1	Lead	10.7			P
7440-02-0	Nickel	183			P
7440-22-4	Silver	1.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

NAVY RAC PROJECT 22567-206

BECHTEL ID NUMBER:
001-0206-002-01

SC/PO SEQ SHT SUBMTL

6

Cell 7

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00564SLG

Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 69364T

Matrix (soil/water): WATER Lab Sample ID: 9609364-04

Level (low/med): LOW__ Date Received: 09/19/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.20	U		P
7440-47-3	Chromium	54.5			P
7439-92-1	Lead	23.9			P
7440-02-0	Nickel	98.5			P
7440-22-4	Silver	1.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

08

Cell8

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00542

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 66265T

Matrix (soil/water): WATER Lab Sample ID: 9606265-01

Level (low/med): LOW__ Date Received: 06/14/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.0	U		P
7440-43-9	Cadmium	0.20	U		P
7440-47-3	Chromium	118			P
7439-92-1	Lead	6.6			P
7440-02-0	Nickel	94.7			P
7440-22-4	Silver	1.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

NAVY RAC PROJECT 22567-206

BECHTEL ID NUMBER:

001-0209-002-01

SC/PO SEQ SHT SUBMTL

004

Cell 9

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00560SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 69364T

Matrix (soil/water): WATER Lab Sample ID: 9609364-01

Level (low/med): LOW__ Date Received: 09/19/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.28	B		P
7440-47-3	Chromium	33.3			P
7439-92-1	Lead	21.8			P
7440-02-0	Nickel	220			P
7440-22-4	Silver	1.1	B		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

NAVY RAC PROJECT 22567-206

FOLDER ID NUMBER:

0001 0222 000 01

SEQ SHT SUBMTL

05

Cell19-R 9

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00561SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 69364T

Matrix (soil/water): WATER Lab Sample ID: 9609364-02

Level (low/med): LOW__ Date Received: 09/19/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.30	B		P
7440-47-3	Chromium	41.0			P
7439-92-1	Lead	23.8			P
7440-02-0	Nickel	122			P
7440-22-4	Silver	1.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

_____

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U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00562SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 69364T

Matrix (soil/water): WATER Lab Sample ID: 9609364-03

Level (low/med): LOW__ Date Received: 09/19/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.21	B		P
7440-47-3	Chromium	36.7			P
7439-92-1	Lead	22.2			P
7440-02-0	Nickel	120			P
7440-22-4	Silver	1.0	B		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00566SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 69520T

Matrix (soil/water): WATER Lab Sample ID: 9609520-01

Level (low/med): LOW__ Date Received: 09/26/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	3.0	U		P
7440-47-3	Chromium	40.9			P
7439-92-1	Lead	61.5	U		P
7440-02-0	Nickel	73.3			P
7440-22-4	Silver	10.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

NAVY RAC PROJECT 22537-206

BECHTEL ID NUMBER:

0001 – 0223 – 002 – 01

SDG SEQ SMP SUBMTL

4

Cell 10/11 west

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00573SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 6B060T

Matrix (soil/water): WATER Lab Sample ID: 9611060-01

Level (low/med): LOW__ Date Received: 11/05/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440439	Cadmium	0.67	B		P
7440473	Chromium	51.4			P
7439921	Lead	14.3			P
7440020	Nickel	106			P
7440224	Silver	1.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

NAVY RAC PROJECT 2258T-206
BECHTEL ID NUMBER:
001-0227-001-02
SC/FO SEQ SHT SUBMTL 04

Cell 12A

12

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00584SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 6B368T

Matrix (soil/water): WATER Lab Sample ID: 9611368-01

Level (low/med): LOW__ Date Received: 11/21/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440382	Arsenic	8.9	B		P
7440439	Cadmium	0.67	B		P
7440473	Chromium	43.5			P
7439921	Lead	22.8	B		P
7440020	Nickel	144			P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

22567-206-001-0230-001-01 004

Cell 13B

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00582SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 6B266T

Matrix (soil/water): WATER Lab Sample ID: 9611266-01

Level (low/med): LOW__ Date Received: 11/14/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440439	Cadmium	0.20	U		P
7440473	Chromium	44.3			P
7439921	Lead	20.3			P
7440020	Nickel	120			P
7440224	Silver	1.0	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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4

Cell 12B/13A 13

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00586SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 6B368T

Matrix (soil/water): WATER Lab Sample ID: 9611368-03

Level (low/med): LOW__ Date Received: 11/21/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440382	Arsenic	2.0	U		P
7440439	Cadmium	0.20	U		P
7440473	Chromium	126			P
7439921	Lead	18.7	B		P
7440020	Nickel	42.3			P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

22567-206-001-0230-001-01

Cell 14A 005 14

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00585SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 6B368T

Matrix (soil/water): WATER Lab Sample ID: 9611368-02

Level (low/med): LOW__ Date Received: 11/21/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440382	Arsenic	6.4	B		P
7440439	Cadmium	0.29	B		P
7440473	Chromium	111			P
7439921	Lead	21.0	B		P
7440020	Nickel	59.1			P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

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22567-206 001-0230-001-01

005

Cell 14B

14

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00596SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 6C511T

Matrix (soil/water): WATER Lab Sample ID: 9612511-01

Level (low/med): LOW__ Date Received: 12/30/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	135			P
7439-92-1	Lead	2.5	B		P
7440-02-0	Nickel	89.5			P
7440-22-4	Silver	0.76	B		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

05 15

Cell 15

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00597SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 6C511T

Matrix (soil/water): WATER Lab Sample ID: 9612511-02

Level (low/med): LOW__ Date Received: 12/30/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	47.2			P
7439-92-1	Lead	2.5	B		P
7440-02-0	Nickel	126			P
7440-22-4	Silver	0.95	B		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

Cell 16 06 16

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00598SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 6C511T

Matrix (soil/water): WATER Lab Sample ID: 9612511-03

Level (low/med): LOW__ Date Received: 12/30/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	48.7			P
7439-92-1	Lead	1.4	U		P
7440-02-0	Nickel	196			P
7440-22-4	Silver	0.74	B		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

Cell 17 07

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00599SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 71168T

Matrix (soil/water): WATER Lab Sample ID: 9701168-01

Level (low/med): LOW__ Date Received: 01/10/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	38.6			P
7439-92-1	Lead	2.6	B		P
7440-02-0	Nickel	181			P
7440-22-4	Silver	0.70	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

3B

Cell 18

18

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00600SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 71088T

Matrix (soil/water): WATER Lab Sample ID: 9701088-01

Level (low/med): LOW__ Date Received: 01/08/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	47.1			P
7439-92-1	Lead	1.6	B		P
7440-02-0	Nickel	75.6			P
7440-22-4	Silver	0.70	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

NAVY RAC PROJECT 22567-206

BECHTEL ID NUMBER:

001-0238-002-01

SC/PO SEQ SHT SUBMTL

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Cell 19

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00590SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 6C511T

Matrix (soil/water): WATER Lab Sample ID: 9612511-04

Level (low/med): LOW__ Date Received: 12/30/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	51.9			P
7439-92-1	Lead	1.4	U		P
7440-02-0	Nickel	150			P
7440-22-4	Silver	0.84	B		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

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Cell 20

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00591SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 6C511T

Matrix (soil/water): WATER Lab Sample ID: 9612511-05

Level (low/med): LOW__ Date Received: 12/30/96

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	256			P
7439-92-1	Lead	2.3	B		P
7440-02-0	Nickel	125			P
7440-22-4	Silver	0.70	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

Cell 20B 09

APH 14

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00601SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 71088T

Matrix (soil/water): WATER Lab Sample ID: 9701088-02

Level (low/med): LOW__ Date Received: 01/08/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.38	B		P
7440-47-3	Chromium	50.9			P
7439-92-1	Lead	1.4	U		P
7440-02-0	Nickel	226			P
7440-22-4	Silver	0.70	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

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Cell 20B 20B

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00650SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 71255T

Matrix (soil/water): WATER Lab Sample ID: 9701255-01

Level (low/med): LOW__ Date Received: 01/15/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	70.2			P
7439-92-1	Lead	2.8	B		P
7440-02-0	Nickel	56.7			P
7440-22-4	Silver	0.70	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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Cell 21

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00653SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 71369T

Matrix (soil/water): WATER Lab Sample ID: 9701369-01

Level (low/med): LOW__ Date Received: 01/21/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	52.9			P
7439-92-1	Lead	4.1	B		P
7440-02-0	Nickel	80.0			P
7440-22-4	Silver	0.70	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00654SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 71369T

Matrix (soil/water): WATER Lab Sample ID: 9701369-02

Level (low/med): LOW__ Date Received: 01/21/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.43	B		P
7440-47-3	Chromium	44.0	B		P
7439-92-1	Lead	2.7	B		P
7440-02-0	Nickel	168			P
7440-22-4	Silver	0.70	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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Cell 23

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00655SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 71369T

Matrix (soil/water): WATER Lab Sample ID: 9701369-03

Level (low/med): LOW__ Date Received: 01/21/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.40	B		P
7440-47-3	Chromium	4.6	B		P
7439-92-1	Lead	5.7	B		P
7440-02-0	Nickel	167			P
7440-22-4	Silver	0.70	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00656SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 71390T

Matrix (soil/water): WATER Lab Sample ID: 9701390-01

Level (low/med): LOW__ Date Received: 01/22/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	46.6	B		P
7439-92-1	Lead	3.5	B		P
7440-02-0	Nickel	119			P
7440-22-4	Silver	0.70	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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Cell 25W

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00657SLG

Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 71390T

Matrix (soil/water): WATER Lab Sample ID: 9701390-02

Level (low/med): LOW__ Date Received: 01/22/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	54.0			P
7439-92-1	Lead	3.3	B		P
7440-02-0	Nickel	221			P
7440-22-4	Silver	0.70	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

CLL 25E

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00658SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 71390T

Matrix (soil/water): WATER Lab Sample ID: 9701390-03

Level (low/med): LOW__ Date Received: 01/22/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	89.0			P
7439-92-1	Lead	2.8	B		P
7440-02-0	Nickel	60.0			P
7440-22-4	Silver	0.70	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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Cell 26W

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00659SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 71451T

Matrix (soil/water): WATER Lab Sample ID: 9701451-01

Level (low/med): LOW__ Date Received: 01/24/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.31	B		P
7440-47-3	Chromium	64.6			P
7439-92-1	Lead	4.2	B		P
7440-02-0	Nickel	56.3			P
7440-22-4	Silver	0.70	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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CLL 26E

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00660SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 71560T

Matrix (soil/water): WATER Lab Sample ID: 9701560-01

Level (low/med): LOW__ Date Received: 01/30/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	81.7			P
7439-92-1	Lead	5.2	B		P
7440-02-0	Nickel	99.7			P
7440-22-4	Silver	0.70	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00664SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 72036T

Matrix (soil/water): WATER Lab Sample ID: 9702036-01

Level (low/med): LOW__ Date Received: 02/04/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	34.0	B		P
7439-92-1	Lead	2.3	B		P
7440-02-0	Nickel	65.8			P
7440-22-4	Silver	0.70	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00667SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 72235T

Matrix (soil/water): WATER Lab Sample ID: 9702235-01

Level (low/med): LOW__ Date Received: 02/12/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	54.0			P
7439-92-1	Lead	3.7	B		P
7440-02-0	Nickel	185			P
7440-22-4	Silver	0.98	B		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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Cell 29A

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00669SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 72235T

Matrix (soil/water): WATER Lab Sample ID: 9702235-03

Level (low/med): LOW__ Date Received: 02/12/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	49.6	B		P
7439-92-1	Lead	3.7	B		P
7440-02-0	Nickel	114			P
7440-22-4	Silver	0.70	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

9

Cell 29B/30B

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00668SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 72235T

Matrix (soil/water): WATER Lab Sample ID: 9702235-02

Level (low/med): LOW__ Date Received: 02/12/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	56.4			P
7439-92-1	Lead	2.8	B		P
7440-02-0	Nickel	250			P
7440-22-4	Silver	0.70	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

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Cell 30A

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00665SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 72112T

Matrix (soil/water): WATER Lab Sample ID: 9702112-01

Level (low/med): LOW__ Date Received: 02/06/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium__	0.30	U		P_
7440-47-3	Chromium_	42.2	B		P_
7439-92-1	Lead____	2.6	B		P_
7440-02-0	Nickel___	96.5			P_
7440-22-4	Silver___	0.70	U		P_

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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Cell 31

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00662SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 71560T

Matrix (soil/water): WATER Lab Sample ID: 9701560-03

Level (low/med): LOW__ Date Received: 01/30/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	67.8			P
7439-92-1	Lead	2.3	B		P
7440-02-0	Nickel	125			P
7440-22-4	Silver	0.70	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

FORM I - IN ILM03.0

007

Cell 32

U.S. EPA - CLP

INORGANIC ANALYSES DATA SHEET

1

EPA SAMPLE NO.

JX00661SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 71560T

Matrix (soil/water): WATER Lab Sample ID: 9701560-02

Level (low/med): LOW__ Date Received: 01/30/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	59.6			P
7439-92-1	Lead	2.8	B		P
7440-02-0	Nickel	187			P
7440-22-4	Silver	0.70	U		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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006

Cell 33

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00670SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 72294T

Matrix (soil/water): WATER Lab Sample ID: 9702294-01

Level (low/med): LOW__ Date Received: 02/14/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.30	U		P
7440-47-3	Chromium	59.7			P
7439-92-1	Lead	6.2	B		P
7440-02-0	Nickel	211			P
7440-22-4	Silver	3.3	B		P

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Cell 34

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00672SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 72402T

Matrix (soil/water): WATER Lab Sample ID: 9702402-01

Level (low/med): LOW__ Date Received: 02/20/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium__	0.40	U		P_
7440-47-3	Chromium_	43.0	B		P_
7439-92-1	Lead_____	1.9	B		P_
7440-02-0	Nickel___	.147			P_
7440-22-4	Silver___	0.50	U		P_

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

Cell 35A

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00673SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 72402T

Matrix (soil/water): WATER Lab Sample ID: 9702402-02

Level (low/med): LOW__ Date Received: 02/21/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium__	0.40	U		P_
7440-47-3	Chromium_	66.2			P_
7439-92-1	Lead_____	1.2	U		P_
7440-02-0	Nickel___	130			P_
7440-22-4	Silver___	0.50	U		P_

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00674SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 72402T

Matrix (soil/water): WATER Lab Sample ID: 9702402-03

Level (low/med): LOW__ Date Received: 02/21/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium__	0.40	U		P_
7440-47-3	Chromium_	90.1			P_
7439-92-1	Lead_____	2.4	B		P_
7440-02-0	Nickel___	33.9	B		P_
7440-22-4	Silver___	0.50	U		P_

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00675SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 72497T

Matrix (soil/water): WATER Lab Sample ID: 9702497-01

Level (low/med): LOW__ Date Received: 02/25/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium__	0.40	U		P_
7440-47-3	Chromium_	58.6			P_
7439-92-1	Lead_____	2.5	B		P_
7440-02-0	Nickel___	150			P_
7440-22-4	Silver___	0.59	B		P_

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00677SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 73034T

Matrix (soil/water): WATER Lab Sample ID: 9703034-01

Level (low/med): LOW__ Date Received: 03/04/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium__	3.3	U		P_
7440-47-3	Chromium_	14.8	B		P_
7439-92-1	Lead_____	64.8	U		P_
7440-02-0	Nickel___	157			P_
7440-22-4	Silver___	10.8	U		P_

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00678SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 73034T

Matrix (soil/water): WATER Lab Sample ID: 9703034-02

Level (low/med): LOW__ Date Received: 03/04/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium__	3.4	B		P_
7440-47-3	Chromium_	55.8			P_
7439-92-1	Lead_____	64.8	U		P_
7440-02-0	Nickel___	181			P_
7440-22-4	Silver___	10.8	U		P_

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00679SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 73034T

Matrix (soil/water): WATER Lab Sample ID: 9703034-03

Level (low/med): LOW__ Date Received: 03/05/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium__	3.3	U		P_
7440-47-3	Chromium_	40.6	B		P_
7439-92-1	Lead_____	64.8	U		P_
7440-02-0	Nickel___	147			P_
7440-22-4	Silver___	10.8	U		P_

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00680SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 73034T

Matrix (soil/water): WATER Lab Sample ID: 9703034-04

Level (low/med): LOW__ Date Received: 03/05/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium__	3.3	U		P_
7440-47-3	Chromium_	43.8	B		P_
7439-92-1	Lead_____	64.8	U		P_
7440-02-0	Nickel___	101			P_
7440-22-4	Silver___	10.8	U		P_

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

JX00681SLG

Lab Name: GENERAL_ENGINEERING_LABS_ Contract: BECH00394_

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 73034T

Matrix (soil/water): WATER Lab Sample ID: 9703034-05

Level (low/med): LOW__ Date Received: 03/05/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium__	3.3	U		P_
7440-47-3	Chromium_	57.5			P_
7439-92-1	Lead_____	64.8	U		P_
7440-02-0	Nickel___	84.0			P_
7440-22-4	Silver___	10.8	U		P_

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: